ORDER NO. ARD-7506059C

Service Manual

Cassette Deck

RS-273US RS-273USD

High-Fidelity Stereo Cassette Deck with
Peak Level Check Switch

RS-271US MECHANISM SERIES

Specifications (Catalog specifications for sales)

Power requirement:	AC; 90~109, 110~125, 200~219, 220~250V, 50/60Hz (RS-273US) AC; 220V, 50Hz (RS-273USD) AC; 240V, 50Hz (RS-273USD for England) Power consumption; 10W
Motor:	Electronic speed control motor
Track system:	4-track 2-channel stereo recording and playback
Recording system:	AC bias (100kHz), AC erase
Tape speed:	4.8cm/s, (1-7/8ips.)
Program time:	1 hour stereo recording with C-60 cassette tape
Wow and flutter:	0.07% (WRMS) ±0.15% (DIN)
Frequency response:	CrO_2 tape; 20~16,000Hz 30~14,500Hz (DIN) Normal tape; 20~15,000Hz 30~13,500Hz (DIN)
Signal to noise ratio: (Signal level 250pwb/mm)	DOLBY NR in; 60dB at 10kHz DOLBY NR out; 52dB
Harmonic distortion:	2.0% (0 VU at 1kHz)
Inputs:	MIC; sensitivity 0.3mV/applicable microphone impedance 600Ω~20KΩ LINE; sensitivity 60mV/160KΩ
Outputs:	LINE; output level 0.5V (at 0 VU max.)/load impedance 50KΩ over HEADPHONE; output level 45mV (max.)/8Ω
REC/PB connection:	5P DIN type
Head:	HPF head for rec/playback×1 Ferrite head for erasing×1
Fast forward and rewind time:	Approx. 100 second with C-60 cassette tape
Dimensions:	12.5cm(W)×42.5cm(H)×27.5cm(D) 5"(W)×16-5/8"(H)×10-7/8"(D)
Weight:	6kg, (13-1/4lbs.)

Specifications are subject to change without notice for further improvement.

National Technics

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P.O. Box 288, Central Osaka Japan

LOCATION OF PARTS

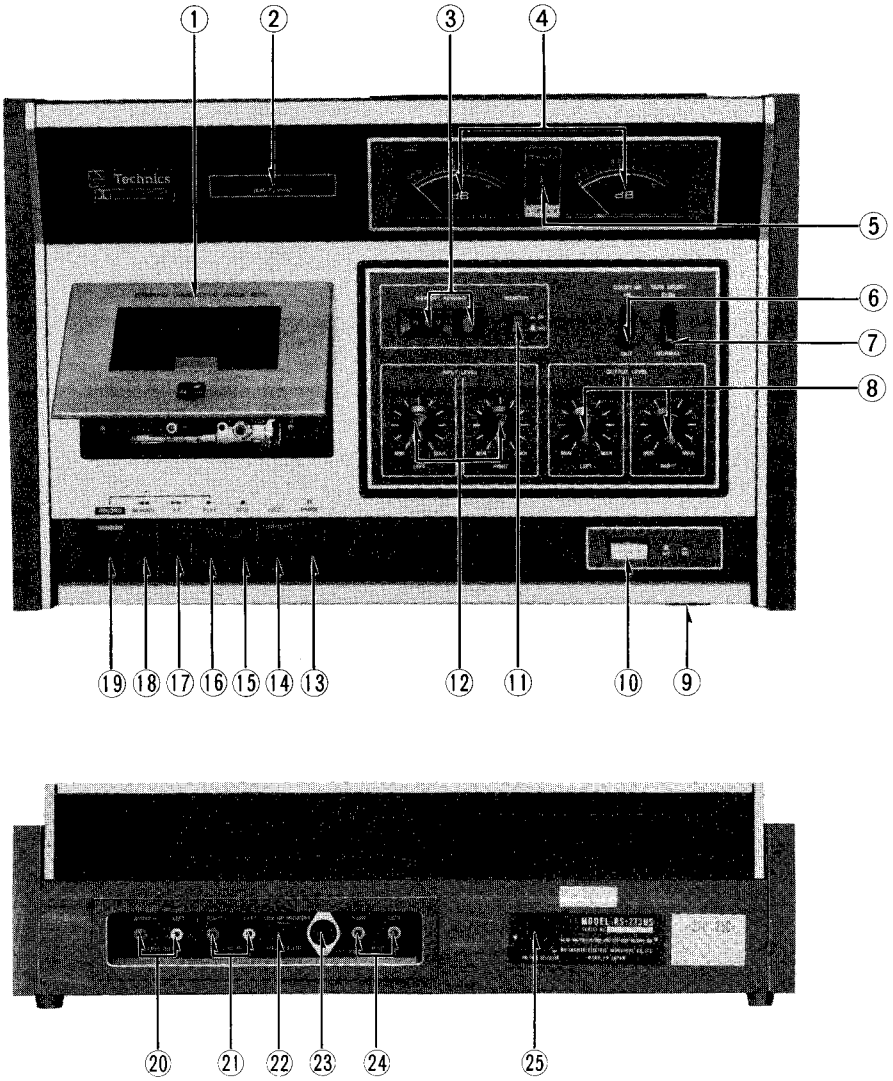


Fig. 1

① Cassette cover
② Tape-movement indicator
③ Tape counter and reset button
④ VU meters
⑤ Peak-level check switch
⑥ Dolby noise-reduction switch
⑦ Tape selector
⑧ Playback level-adjustment controls
⑨ Headphone jack
⑩ Power switch
⑪ Memory-rewind switch
⑫ Recording level-adjustment controls
⑬ Pause button
⑭ Ejection button
⑮ Stop button
⑯ Playback button
⑰ Fast forward button
⑱ Rewind button
⑲ Record button
⑳ Line output jacks
㉑ Line input jacks
㉒ Input selector
㉓ Record/Playback connection socket
㉔ Microphone jacks
㉕ Voltage selector

DISASSEMBLY INSTRUCTIONS

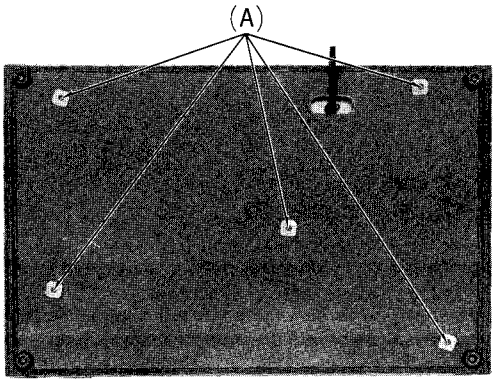


Fig. 2

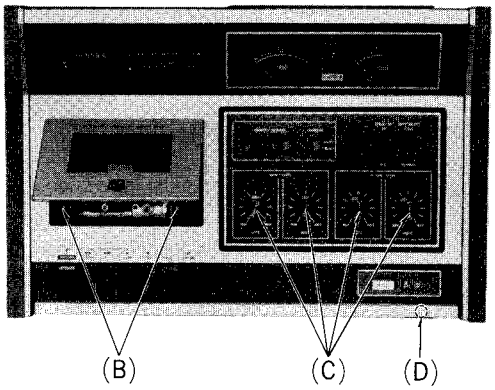


Fig. 3

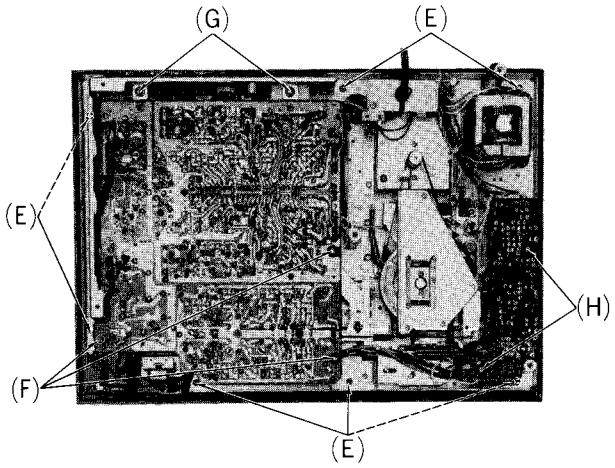


Fig. 4

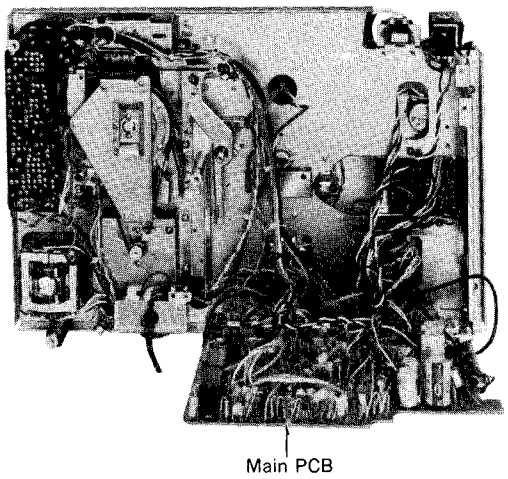


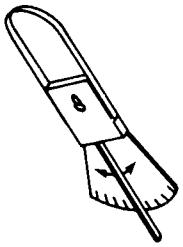
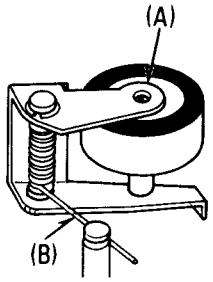
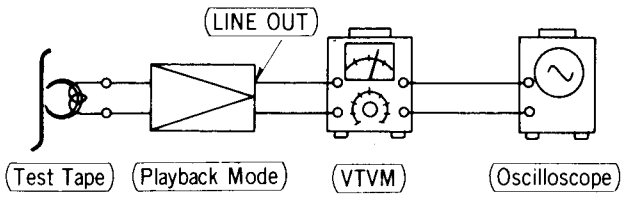
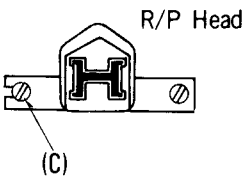
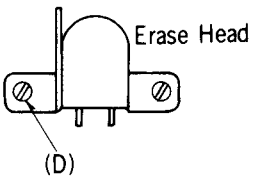
Fig. 5

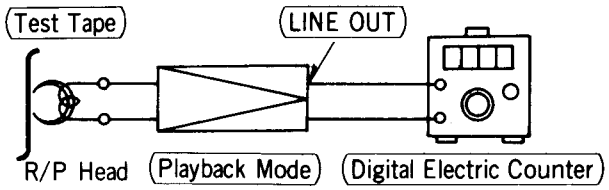
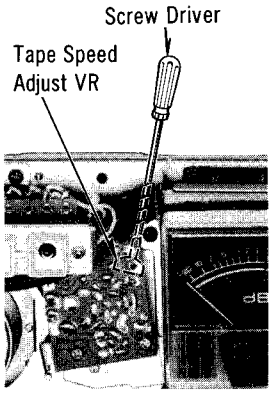
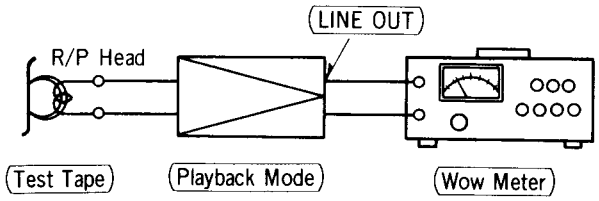
Procedure	How to remove ——	Remove ——	Pcs.	Shown in fig. ——
1	Main Case Assembly	A	5	2
2	Panel Assembly	B, C, D, E	2, 4, 1, 7	3, 3, 3, 4
3	Main PCB	F, G, ※1	3, 2	4
4	Tape Running Indicator PCB	H	2	4

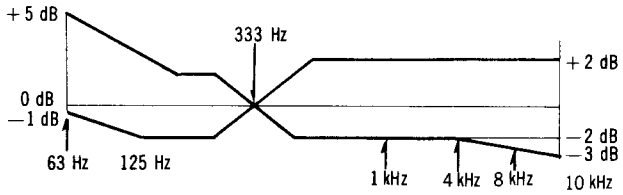
※1 By removing the 3 screws (F) shown in fig. 4, the main PCB can be spread vertically, as shown in fig. 5, and the main PCB can be checked and necessary repairs can be completely performed.

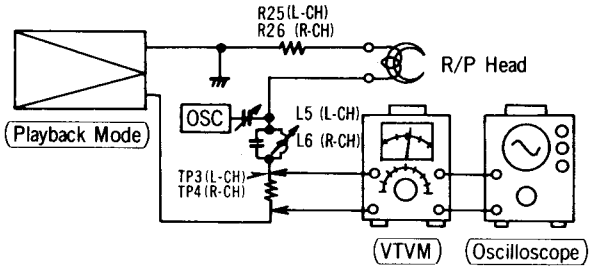
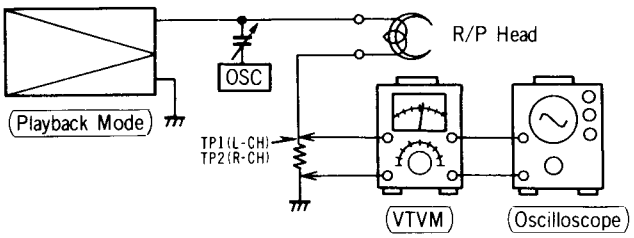
MEASUREMENT & ADJUSTMENT METHODE

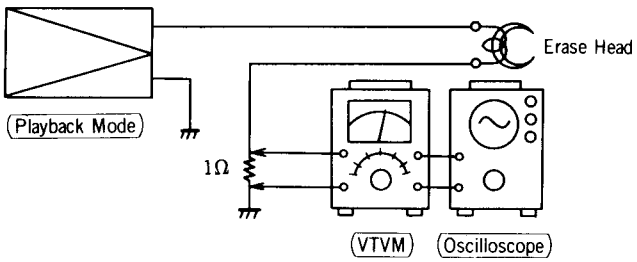
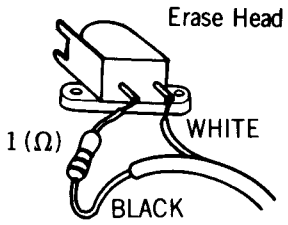
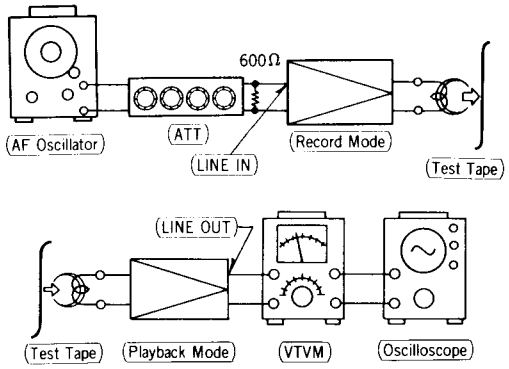
NOTE: 1. Make sure heads are clean.
2. Make sure capstan and pressure roller are clean.
3. Judgeable room temperature: 20°±5°C (68±9°F).
4. Input selector: LINE IN.
5. Output control: MAX.
6. Tape select switch: NORMAL.
7. Dolby NR switch: OUT.

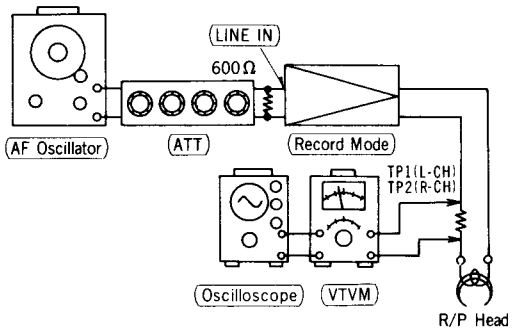
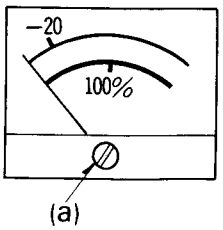
ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
Pressure of Pressure Roller Equipment: * Tension Gauge 	1. Place unit into playback mode. 2. Hook tension gauge to pressure roller shaft top (A), and pull gauge in direction opposite to pressure of pressure roller against capstan. 3. Read pressure indicated on gauge immediately when pressure roller moves away from capstan and stops rotating. Standard Value: 600±100 gr Adjustment method Adjust by bending the (B) part of the pressure roller spring.	* Playback Mode  Fig. 6
Takeup Tension Equipment: * Cassette Torque Meter (RP-8063)	1. Mount cassette torque meter on unit. 2. Place unit into playback mode and read takeup torque. 3. Measure several times and determine the mean value. Standard Value: 55±15 gr-cm If the measured value is not within standard, clean the rotational parts of the mechanism with alcohol.	
Head Azimuth Adjustment Equipment: * VTVM * Oscilloscope * Test Tape (Azimuth) ...C-AA * Tape Path Viewer ...RT-8133	**Record/playback head adjustment** 1. Test equipment connection is shown below.  Fig. 7 2. Play azimuth tape (C-AA 6.3 kHz). 3. Adjust record/playback head azimuth adjustment screw (C) in fig. 8 so that output level at LINE OUT jack become maximum. 4. Measure both channels, and the level difference between channels shoud be minimised by adjusting. 5. After adjustment lock head azimuth adjustment screw with lacquer. **Erase head adjustment** 1. Test equipments connection is the same as above but use the tape path viewer (RT-8133) instead of test tape (C-AA). 2. Play this tape. 3. Adjust screw (D) shown in fig. 9 so that the tape may not get curled or malformed by tape guide of the erase head. 4. After adjustment lock head adjust screw with lacquer.	* Playback Mode  Fig. 8  Fig. 9

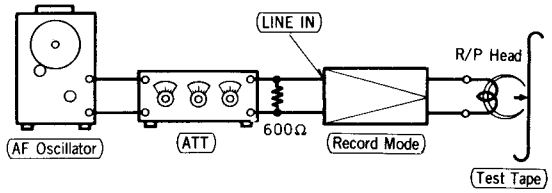
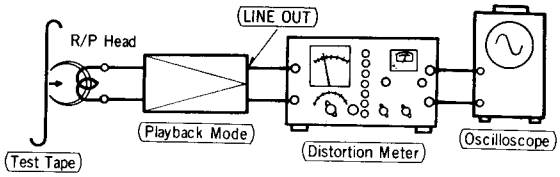
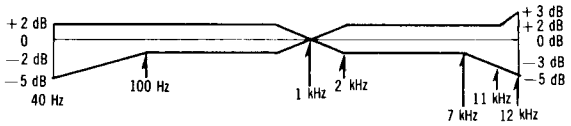
ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
Tape Speed Equipment: * Digital Electronic Counter or Frequency Counter (RP-8067) * Test Tape...C-WAT	**Tape speed accuracy** 1. Test equipment connection is shown below.  **Fig. 10** 2. Play test tape (C-WAT 3,000Hz), and supply playback signal to frequency counter. 3. Measure this frequency. 4. On the basis of 3,000Hz, determine value by following formula: $\text{Tape speed accuracy} = \left\{\frac{f-3{,}000}{3{,}000} \times 100\right\}\%$ where, f=measured value 5. Take measurement at middle section of tape. **Standard Value: ±2%** **Adjustment method** 1. Play the test tape (middle). 2. Adjust the tape speed adjustment VR shown in fig. 11 so that frequency counter shows 3,000Hz.	* Playback Mode  **Fig. 11**
Wow and Flutter Equipment: * Wow Meter * Test Tape...C-WAT	1. Test equipment connection is shown below.  **Fig. 12** 2. Use wow test tape (3,000Hz) and measure its playback signal on wow meter. 3. Wow and flutter is expressed in percentage and that measurement can be weighted by JIS network (WRMS). 4. Measure at middle section of test tape. **Standard Value: 0.09% or better (JIS WRMS)**	* Playback Mode

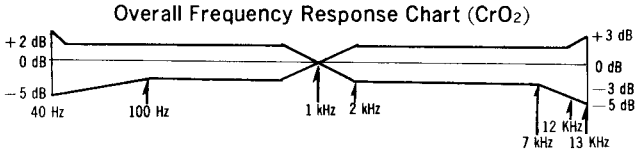
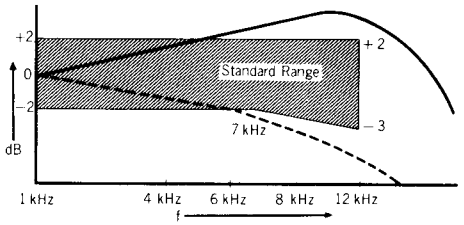
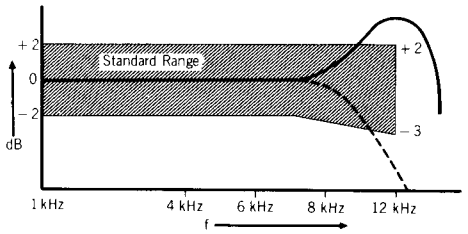
ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
Playback Frequency Response Equipment: * VTVM * Oscilloscope * Test Tape...C-FH	1. Test equipment connection is as same as for "Head Azimuth Adjustment", but use the tast tape (C-FH) instead of head azimuth tape (See fig. 7). 2. Set tape selector to normal position. 3. Play frequency response test tape (C-FH). 4. Measure output level (at 10kHz, 8kHz, 4kHz, 1kHz, 125 Hz and 63Hz) and compare output level with standard frequency 333Hz, at LINE OUT jack. 5. Make measurement for both channels. 6. Make sure that the measured value is within the range specified in the frequency response chart. Playback Frequency Response Chart  Fig. 13 7. If measured value is not in standard, adjust VR1 (L-CH), VR2 (R-CH) shown in fig. 26 on page 12. 8. If the frequency characteristic becomes lower than the standard value, especially in high frequency range (8kHz, 10kHz), short the circuits Ⓐ(L-CH), Ⓑ(R-CH) on the copper foil of the PCB shown on page 16, then readjust the caracterristics by using procedure described above.	* Playback Mode
Playback Gain Equipment: * VTVM * Oscilloscope * Test Tape...C-FH	1. Test equipment connection is shown in fig. 7. 2. Play standard recording level portion on test tape (C-FH 333Hz) and, using VTVM, measure the output level at LINE OUT jack. 3. Make measurement for both channels. Standard Value: 0.5 V (−6 dB) **Adjustment** 1. If measured value is not standard, adjust VR3 (L-CH), VR4 (R-CH). 2. After adjustment, check "Playback Frequency Response" again.	* Playback Mode * Location of VR3 and VR4 are shown in fig. 26.
Playback S/N Ratio Equipment: * VTVM * Oscilloscope * Test Tape...C-FH * Empty Cassette	1. Test equipment connection is shown in fig. 7. 2. Play standard recording level test tape (C-FH 333Hz), and measure the output level. Refer to "Playback Gain Adjustment". 3. Place empty cassette (which has been cut) and play again. 4. Measure noise level at this time using VTVM, and determine ratio of this level to test tape output signal voltage (333Hz). Standard Value: Greater than 43 dB	* Playback Mode

ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
	An example calculation is shown below. A: Es=playback output signal voltage of test tape (333Hz) B: En=playback output noise level Es=0.5 V (−6 dB) En=3.5 mV (−49 dB) $\text{S/N ratio} = \frac{Es}{En} = \frac{0.5\,V}{3.5\,mV} = 141$ $20 \log_{10} 141 = 43\,dB$ or S/N ratio=Es(dB) − En(dB) = −6 − (−49) = 43 dB	
Bias Leak Equipment: * VTVM * Oscilloscope	1. Test equipment connection is shown below.  **Fig. 14** 2. Place unit into record mode. 3. Adjust trap coils L3 (L-CH), L4 (R-CH), so that measured value become minimum. 4. Take adjustment for both channels.	* Record Mode * Record Level Control ...MAX * Location of TP3, TP4, L3 and L4 are shown in fig. 26.
Bias Current Equipment: * VTVM * Oscilloscope	1. Test equipment connection is shown below.  **Fig. 15** 2. Place unit into record mode and tape selector to normal position. 3. Read voltage on VTVM and calculate bias current by following formula. $\text{Bias current (A)} = \frac{\text{Value read on VTVM (V)}}{10\,(\Omega)}$ **Standard Value: 0.12±0.02 mA** 4. Adjust trimmer capacitors of VC1-1 (L-CH), and VC1-2 (R-CH), if not in standard. 5. Then changing the tape selector to CrO_2 position, confirm that bias current become greater by 20% than that for normal.	* Record Mode * Be sure the ground end of the meter is connected to the nearest ground of test point. * When bias current is adjusted on one channel only, note that bias current on the other channel may vary. * Location of TP1, TP2, VC1-1 and VC1-2 are shown in fig. 26.

ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
Erase Current Equipment: * VTVM * Oscilloscope * Resistor (1Ω)	1. Connect 1Ω resistor between ground side terminal of erase head and ground lead wire removed. 2. Connect VTVM to both ends of 1Ω resistor.  **Fig. 16** 3. Place unit into record mode, and measure voltage across the 1Ω resistor. 4. Determine erase current with the following formula. $\text{Erase current (A)} = \frac{\text{Voltage across both ends of 1 (Ω)}}{\text{1 (Ω)}}$ Standard Value: 130±20 mA	* Record Mode  **Fig. 17**
Overall Gain Equipment: * AF Oscillator * VTVM * ATT * Oscilloscope * Test Tape (Reference Blank Tape) ...C-RF (for CrO_2) ...C-RA (for Normal)	1. Test equipment connection is shown below.  **Fig. 18** 2. Set tape selector to CrO_2 position. 3. Supply 1 kHz signal (−24 dB) from AF oscillator, through ATT, to LINE IN. 4. Adjust ATT until monitor level at LINE OUT becomes 0.5 V (−6 dB). 5. Using test tape C-RF, make recording. 6. Playback recorded tape, and make sure the value at LINE OUT jack on VTVM becomes 0.5 V. 7. If measured value is not 0.5 V, adjust VR7 (L-CH), VR8 (R-CH). 8. Repeat from step (5). 9. For normal tape, tape selector to normal position, change test tape to C-RA, and take the same step as for CrO_2, but to adjust, use VR1101 (L-CH), and VR1102 (R-CH).	* Record/Playback Mode * Record Level Control ...MAX * Standard Input Level: MIC.....−70±3 dB LINE IN ...−24±3 dB * Adjustment procedure should be: CrO_2→Normal * Location of VR7, VR8, VR1101 and VR1102 are shown in fig. 26.

ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
	How to check recording current  **Fig. 19** 1. Test equipment connection is shown in fig. 19. 2. Stop bias oscillation by unsoldering the circuit © on copper foil of the PCB shown on page 16. 3. Set tape selector to CrO_2 position. 4. Supply 1 kHz signal (−24 dB) and adjust ATT until monitor level at LINE OUT becomes 0.5 V. 5. Measure voltage and then calculate recording current by formura given below. $\text{Recording current} = \frac{\text{Value read on VTVM (V)}}{10\ (\Omega)}$ **Standard Value: 60μA** 6. At this time, set the tape selector switch to normal position and confirm variation of recording current. **Standard Value: 40μA ±1 dB**	* Location of TP1 and TP2 are shown in fig. 26. * Location of circuit © is shown on page 16.
Level Meter Equipment: * VTVM * Oscilloscope * AF Oscillator	**Needle position adjustment** 1. Switch off the power source to the unit, and then adjust the needle position by using part (a), as shown in fig. 20. **Zero adjustment** 1. Supply power to the unit. 2. If the meter indication exceeds −20 dB at zero input, open the circuit Ⓓ on copper foil of the PCB shown on page 16. **Adjustment of the standard level indication** 1. Supply 1 kHz signal (−20 dB) from AF oscillator, through ATT, to LINE IN jack. 2. Set the unit to record mode. 3. Adjust record control so that monitor level at LINE OUT becomes 0.5 V. 4. Adjust VR701 (L-CH), VR702 (R-CH) so that VU meter indicates 0 VU.	 **Fig. 20** * Location of VR701 and VR702 are shown in fig. 26.

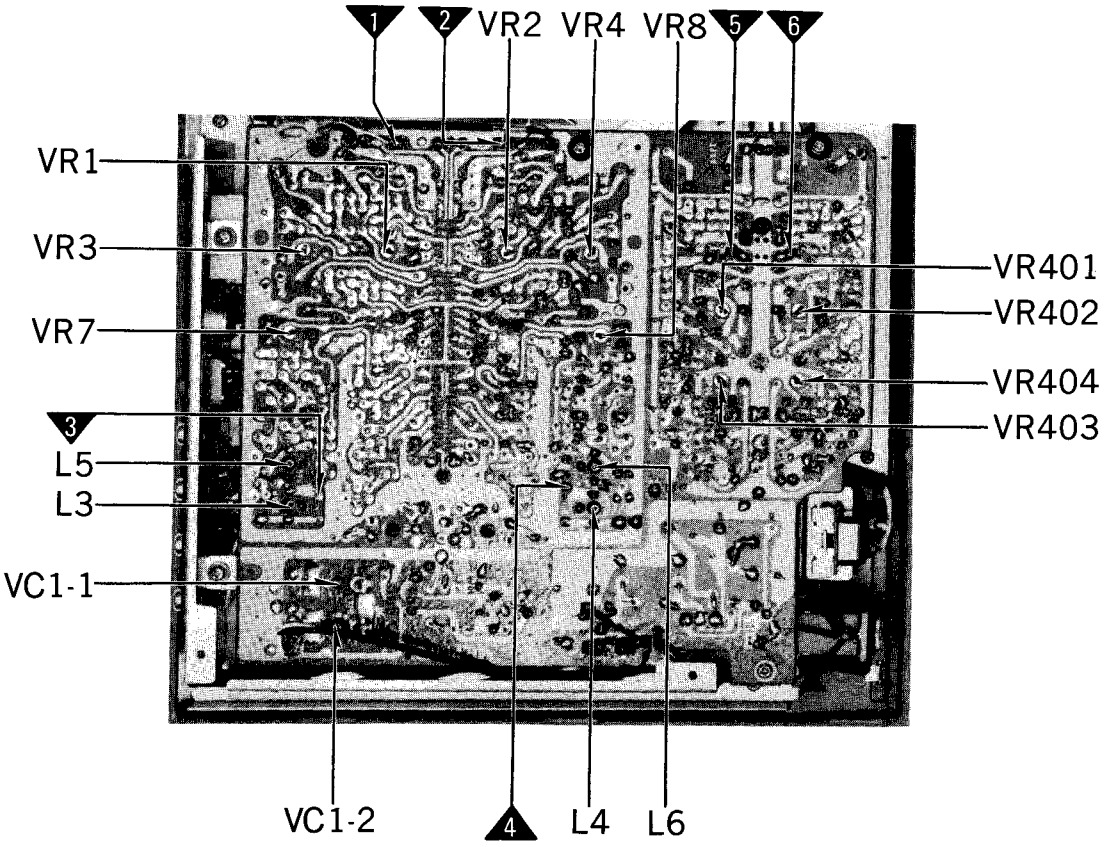
ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
Overall Distortion Equipment: * Distortion Meter * AF Oscillator * ATT * Oscilloscope * Test Tape (Reference Blank Tape) ...C-RA	1. Test equipment connection is shown below.   **Fig. 21** 2. Supply 1 kHz signal to LINE IN jack and adjust ATT so that output level at LINE OUT indicates 0.5 V (−6 dB). 3. Make recording. 4. Playback, and measure distortion factor of output signal. 5. When the distortion factor does not satisfy the standard, check the bias current. When the bias current is lower than standard, distortion will increase. Care should be exercised in the adjustment because the bias current also has an influence on the overall frequency response. Refer to "The Overall Frequency Response" and "The Bias Current" adjustments. **Standard Value: Less than 2.3%**	* Record/Playback Mode * Record Level Control ...MAX
Overall Frequency Response Equipment: * VTVM * AF Oscillator * ATT * Test Tape (Reference Blank Tape) ...C-RA (for Normal) ...C-RF (for CrO_2)	1. Test equipment connection is shown in fig. 18. 2. Tape selector to normal position. 3. Load reference blank test tape (C-RA) and place unit into record mode. 4. Supply 1 kHz signal from AF oscillator, through ATT to LINE IN jack. 5. Adjust ATT so that input level is −20 dB below standard recording level. 6. At this time, LINE OUT level indicates 0.05 V. 7. Record each frequency 40 Hz, 100 Hz, 700 Hz, 1 kHz, 2 kHz, 7 kHz, 10 kHz and 12 kHz (13 kHz for CrO_2) at the same level. 8. Playback and express in dB the difference between playback output level of each frequency based on playback output level of 1 kHz. 9. Make sure that the measured value is within the range specified in the overall frequency response chart. **Overall Frequency Response Chart (Normal)**  **Fig. 22**	* Record/Playback Mode * Record Level Control ...MAX **Note:** Before measuring and adjusting, make sure of the playback frequency response (For the method of measurement, please refer to the playback frequency response).

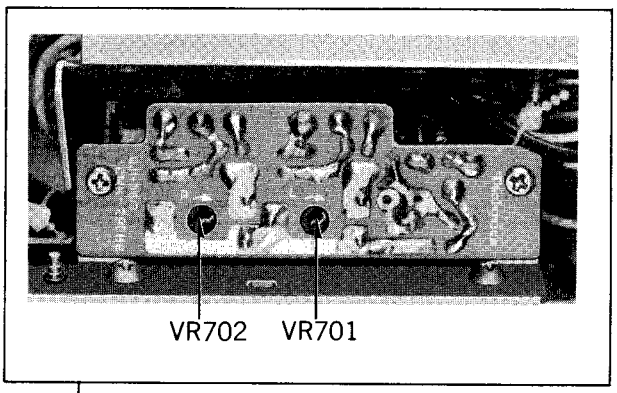
ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
	10. Set the tape selector to CrO_2 position. 11. Measure in the same manner as above (use test tape C-RF). 12. Make sure that the measured value is within the range specified in the overall frequency response chart for CrO_2 tape below. **Overall Frequency Response Chart (CrO_2)**  **Fig. 23** **Adjustment 1—Using bias current**  **Fig. 24** 1. When the frequency response between the middle and high-frequency range becomes higher than the standard value, as shown by the solid line in fig. 24, increase the bias current by turning VC1-1 or VC1-2 in direction of arrow indicated on PCB. 2. When it becomes lower, as shown by dotted line, reduce the bias current by turning in the direction opposite to arrow indication. **Note:** 1. For adjustment when the bias current is lower than the standard value 0.1 mA, use the procedure indicated in adjustment 2, because reducing the bias current beyond this point may worsen the distortion factor. 2. For the method of bias current measurement, refer to "Bias Current Adjustment" on page 6. **Adjustment 2—Using the peaking coil for recording equalization**  **Fig. 25** When the frequency response is flat in the middle-frequency range and makes a sharp rise or drop in the high-frequency range as shown in fig. 25, adjust by turning the peaking coil L5 (L-CH), L6 (R-CH) for recording equalization.	* Location of VC1-1 and VC1-2 are shown in fig. 26. * Location of L5 and L6 are shown in fig. 26.

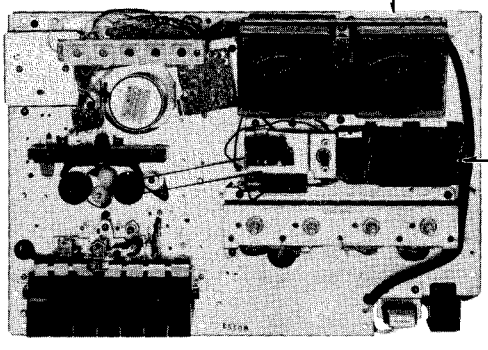
ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
	Adjustment of the overall frequency response by using CrO_2 tape 1. Dolby NR switch is set to OUT position. 2. Tape selector is set to CrO_2 position. 3. Never adjust the bias current. 4. Must use technics CrO_2 tape (C-RF). **Adjustment method** When the frequency response is flat in the middle-frequency range and makes a sharp rise or drop in the high-frequency range as shown in fig. 25, adjust by turning the VR1103 (L-CH), VR1104 (R-CH) for CrO_2 recording equalization.	* Location of VR1103 and VR1104 are shown in fig. 26.
Overall S/N Ratio Equipment: * VTVM * AF Oscillator * ATT * Oscilloscope * Test Tape (Reference Blank Tape) ...C-RA	1. Test equipment connection is shown in fig. 18. 2. Supply 1 kHz signal (−14 dB) to LINE IN and adjust record level control so that VU meter indicates 0 VU. 3. Further adjusting ATT, increase input signal by 4 dB (Line output level = 0.5 V (−6 dB) + 4 dB = 0.8 V (−2 dB)). 4. Make recording. 5. Make another recording without supplying signal (disconnect input plug from LINE IN jack). 6. Rewind to recorded part and playback. 7. Measure output signal level and no signal level (noise), and determine the ratio in decibels (dB). 8. The value is difference between "Playback S/N and Overall S/N", but for decibel calculation refer to "Playback S/N Measurement" described on page 8. Standard Value: Greater than 49 dB NOTE: NAB FILTER 1. If there may occur a connection loss with the filter, use care about the method of reading the output level. For instance, when the loss is 6 dB the value measured actually is −12 dB, whereas the specified output is −6 dB. As for measurement of S/N ratio, both signal and noise are 6 dB smaller, but the S/N ratio remains unchanged. 2. With the filter built-in an amplifier, there occurs no such an insertion loss in (1) above, but may occur hum noise for which care should be taken.	* Record/Playback Mode * Erase the tape with a bulk tape eraser.
Dolby NR Circuit Equipment: * VTVM * AF Oscillator * ATT * Oscilloscope	1. Place unit into record mode, set the Dolby NR switch to OUT position and supply 5 kHz signal to LINE IN jack to obtain −33 dB at TP5 (L-CH), TP6 (R-CH). 2. Confirm that the value at IN position is 8 dB greater than the value at OUT position of Dolby NR switch. 3. When it is not in condition above, adjust as follows. 4. Fully turn VR401, VR402, VR403, and VR404 in direction opposite to arrow indication. 5. Set the Dolby NR switch to IN position. 6. At this time adjust VR403 (L-CH), VR404 (R-CH) so that the reading of VTVM become −23 dB (10 dB greater than the value in step (1) above). 7. Adjusting VR401 (L-CH), VR402 (R-CH), make the reading of VTVM becomes −25 dB (2 dB smaller than the value obtained through the adjustment in step (6) above).	* Record Mode * Record Level Control ...MAX

※ Dolby is the trade mark of Dolby Laboratories Inc.

ADJUSTMENT PARTS LOCATION







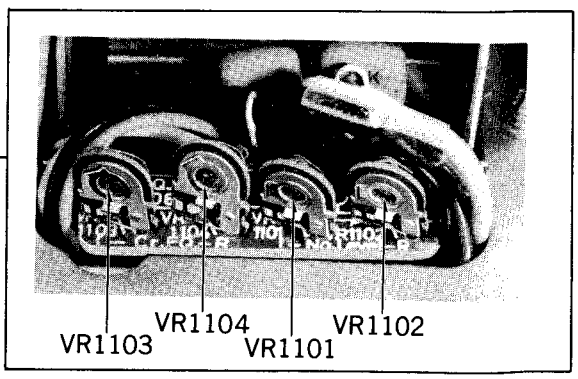
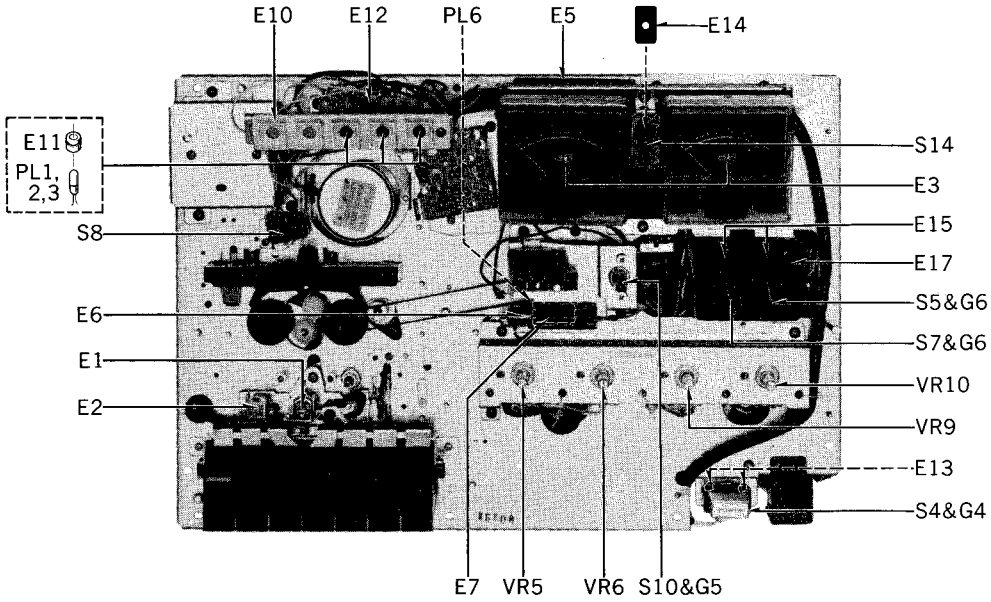
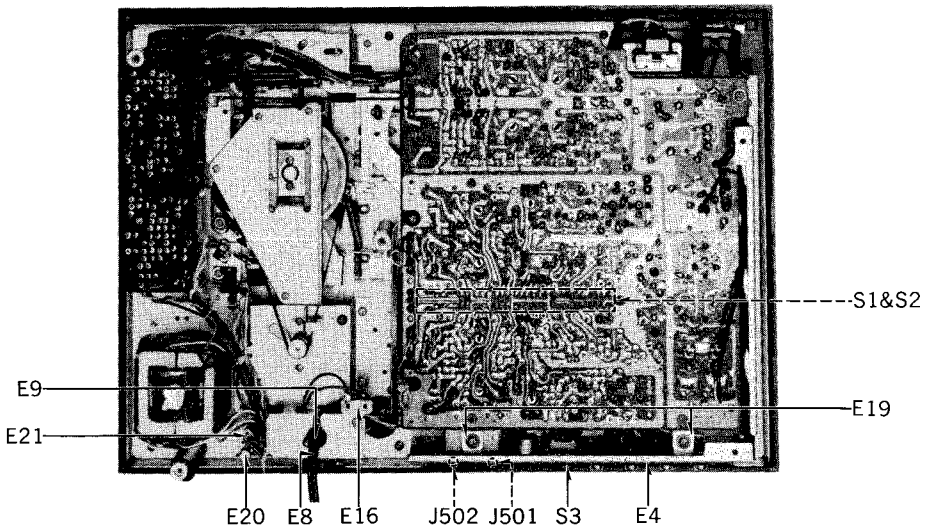
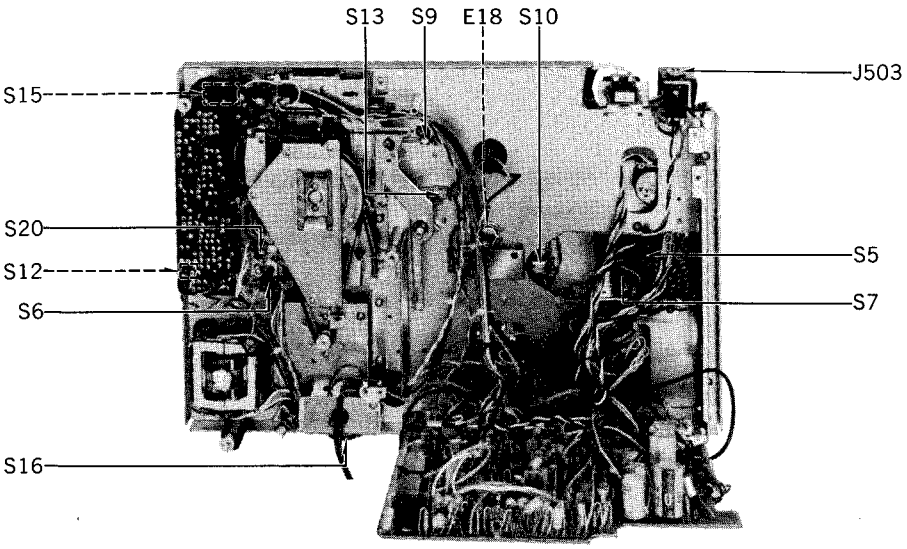


Fig. 26

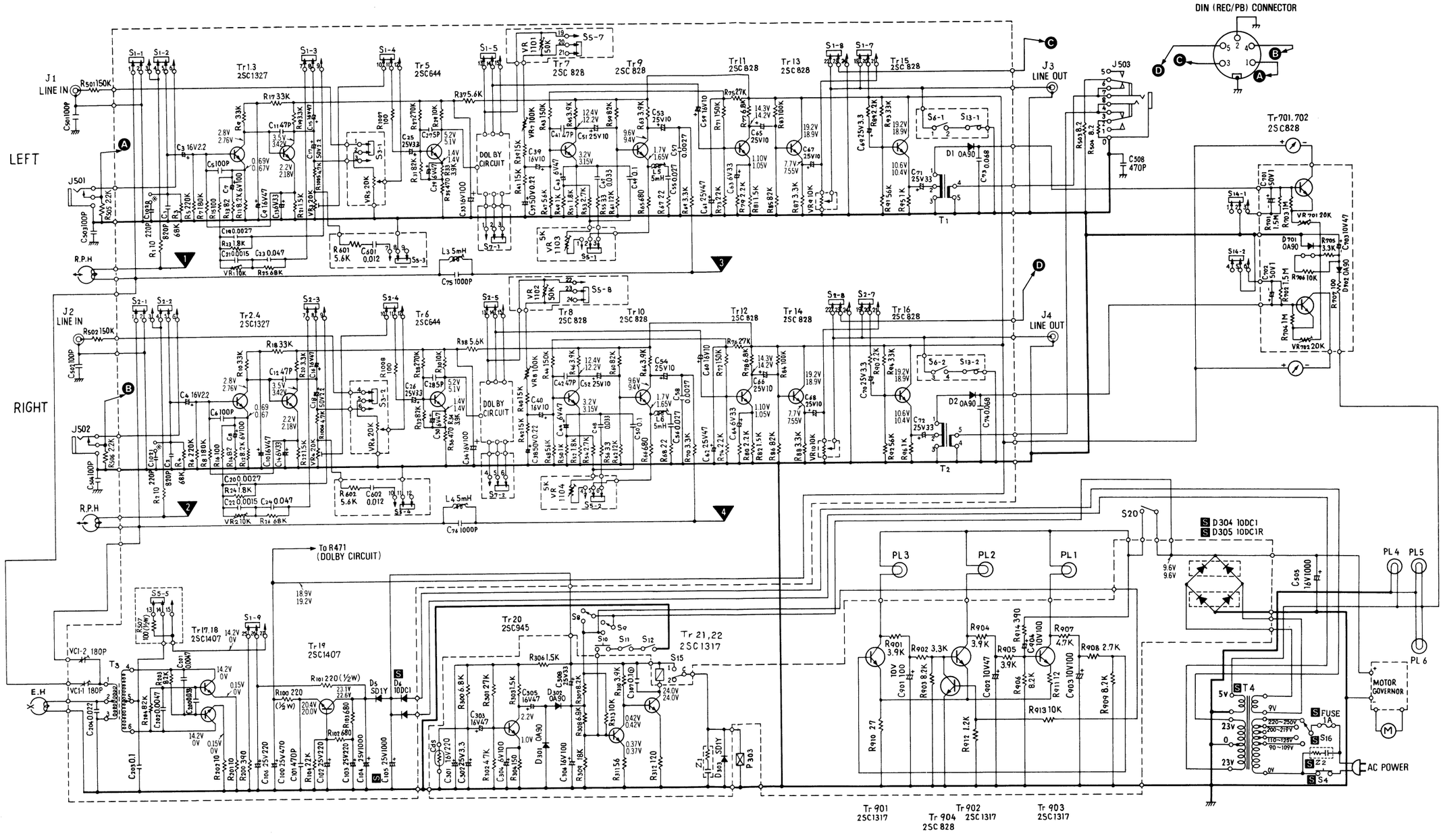
ELECTRICAL PARTS LOCATION



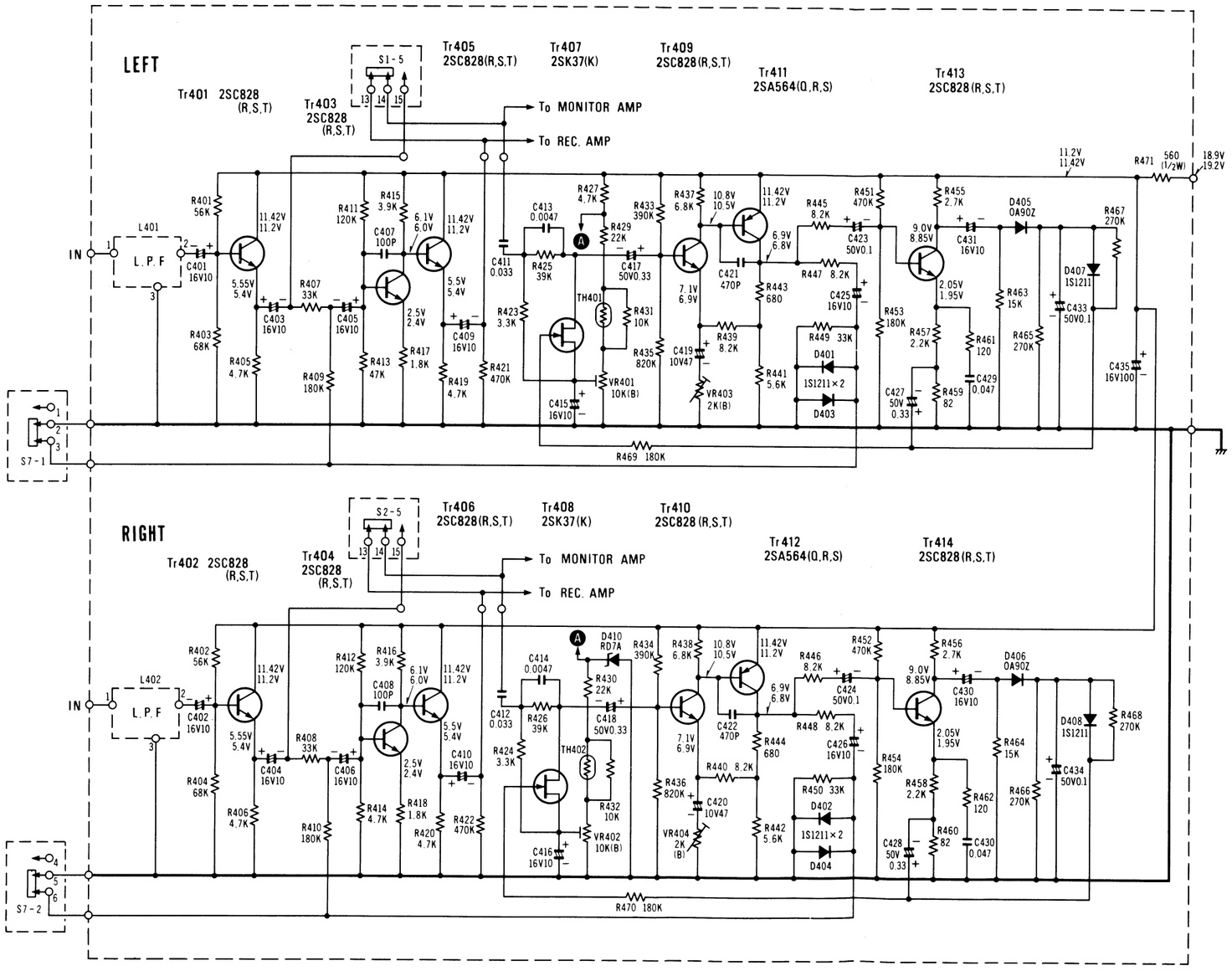




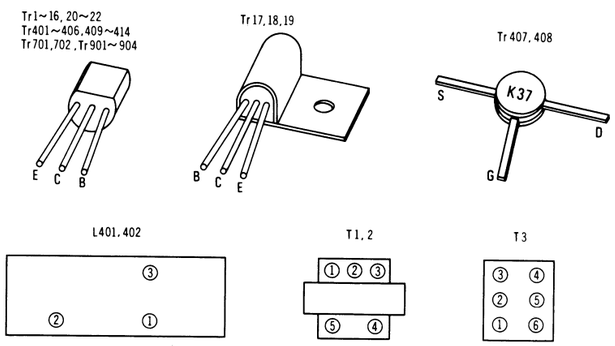
SCHEMATIC DIAGRAM MODEL RS-273US, RS-273USD



SCHEMATIC DIAGRAM MODEL RS-273US, RS-273USD



TERMINATIONS (BOTTOM VIEW)

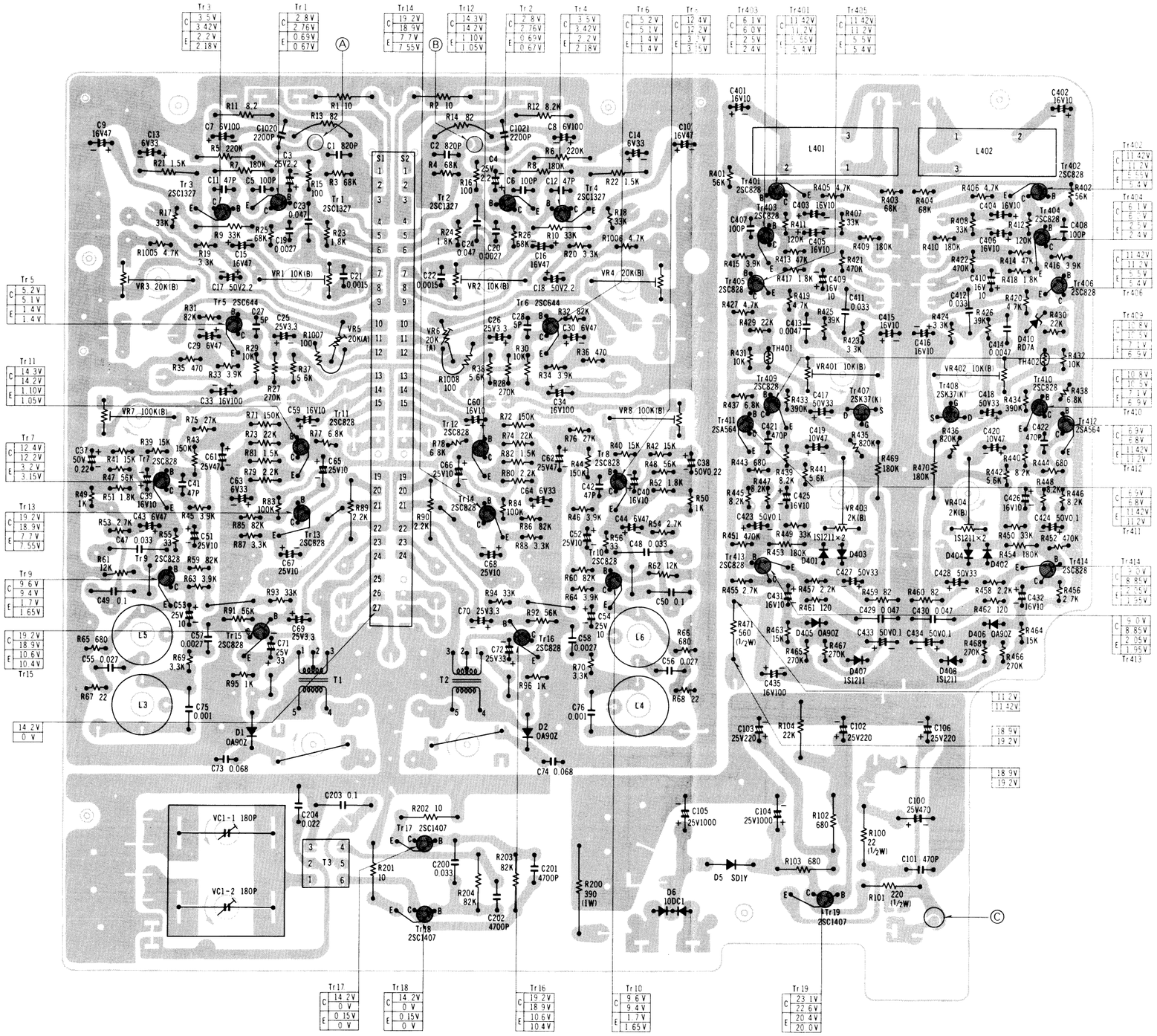


NOTE:

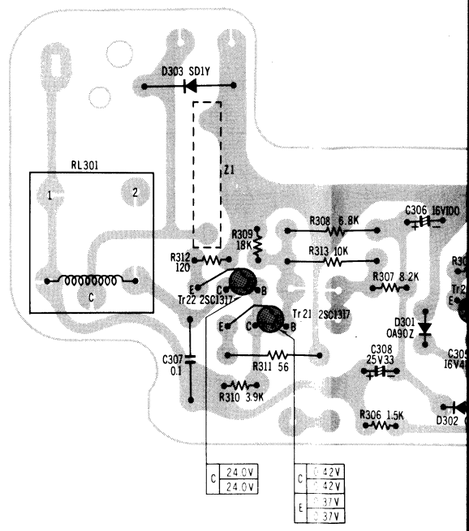
1. S1-1~S1-9, S2-1~S2-9...Record/playback select switch.
2. S3-1, S3-2 .....Input select switch.
3. S4 .....Power ON/OFF switch.
4. S5-1~S5-8 .....Tape select switch.
5. S6-1, S6-2 .....Record muting switch.
6. S7-1~S7-3 .....Dolby NR IN/OUT switch.
7. S8 .....Auto-stop defeat switch.
8. S9 .....Pause switch.
9. S10 .....Memory ON/OFF switch.
10. S11 .....Memory switch.
11. S12 .....Rewind switch.
12. S13 .....Playback muting switch.
13. S14-1, S14-2 .....Peak check switch.
14. S15 .....Plunger function switch.
15. S16 .....AC voltage select switch.
16. S20 .....Tape run indicator ON/OFF switch.
17. VR1, 2 .....Playback equalizer adjustment VR.
18. VR3, 4 .....Playback gain adjustment VR.
19. VR5, 6 .....Record level control.
20. VR7, 8 .....Record level adjustment VR (for CrO_2 tape).
21. VR9, 10.....Playback level control.
22. VR401~404 .....Dolby NR adjustment VR.
23. VR701, 702.....Level meter adjustment VR.
24. VR1101, 1102 .....Record level adjustment VR (for normal tape).
25. VR1103, 1104 .....Record equalizer adjustment VR (for CrO_2 tape).
26. Resistor values are in ohms (Ω). 1/4 watt unless specified otherwise.
    K=1,000Ω.
27. Capacitor values are in microfarads (μF) unless specified otherwise.
    P=Pico-farads.
28. The mark (▼) shows test point. e.g. ▼=test point 1.
29. All measurements are under no signal conditions with volume at minimum position.
    Use VTVM for voltage measurements.
30. The upper values should be measured during recording and the lower values during playback.

CIRCUIT BOARD

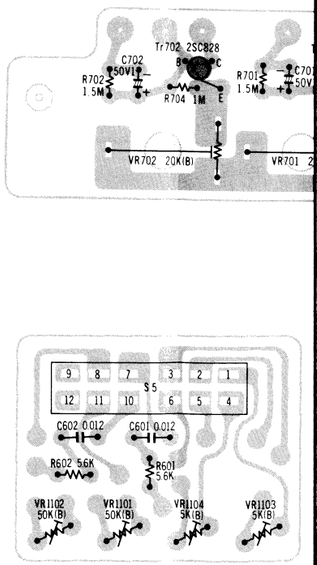
MAIN CIRCUIT BOARD



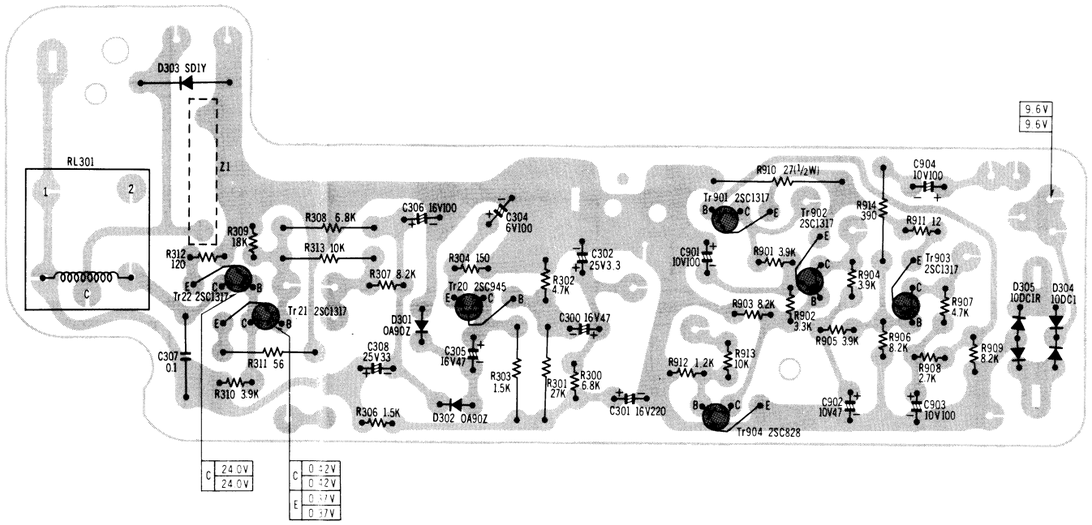
CONTROL CIRCUIT BOARD



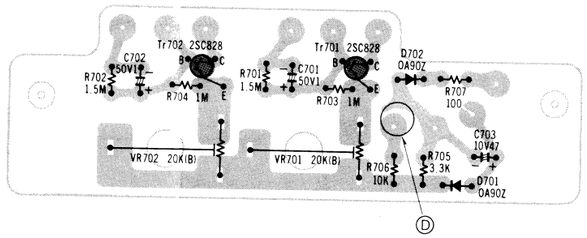
EQUALIZER CIRCUIT BOARD

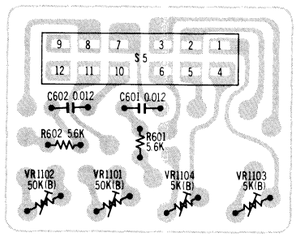


CONTROL CIRCUIT BOARD



EQUALIZER CIRCUIT BOARD



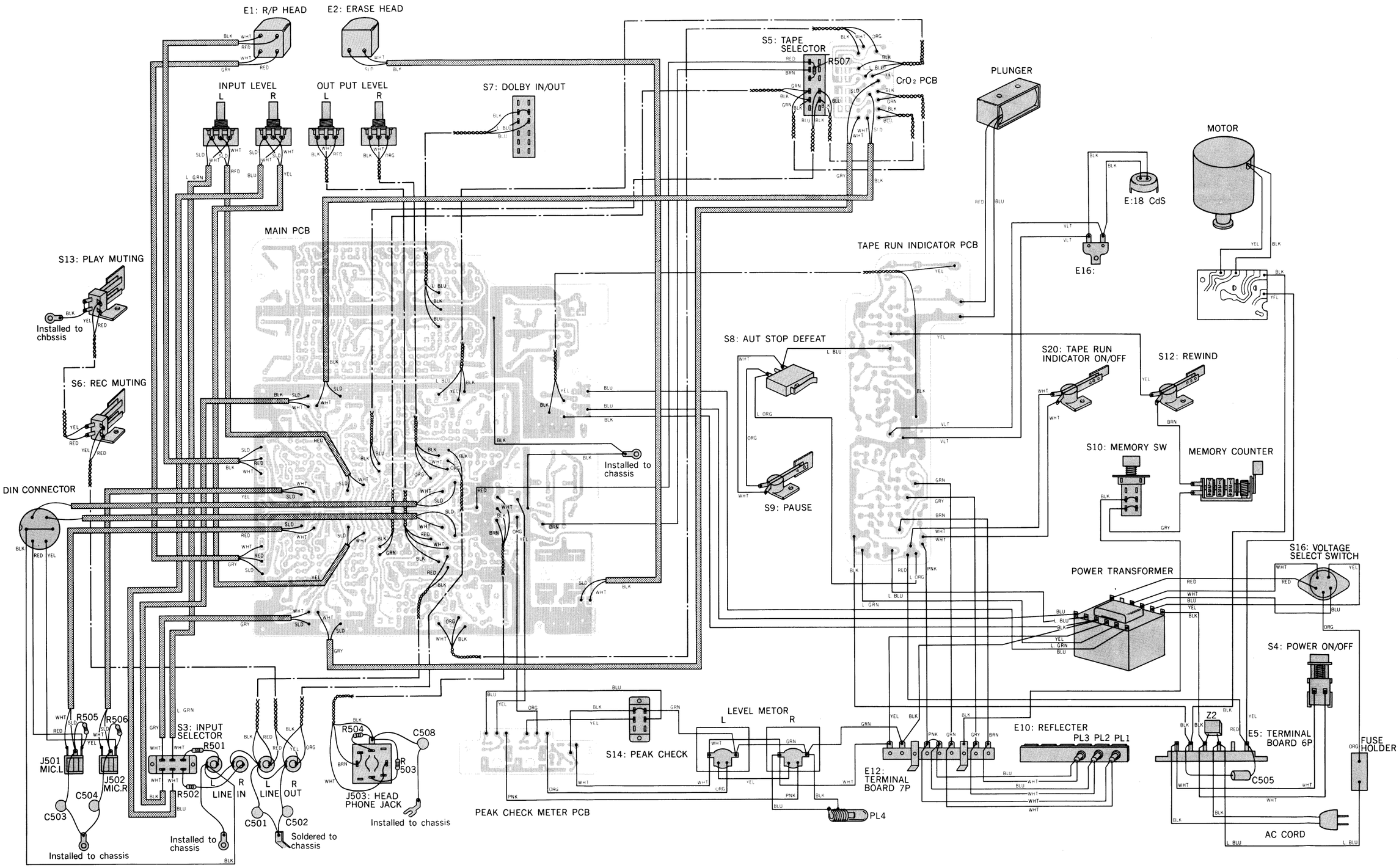


NOTE:

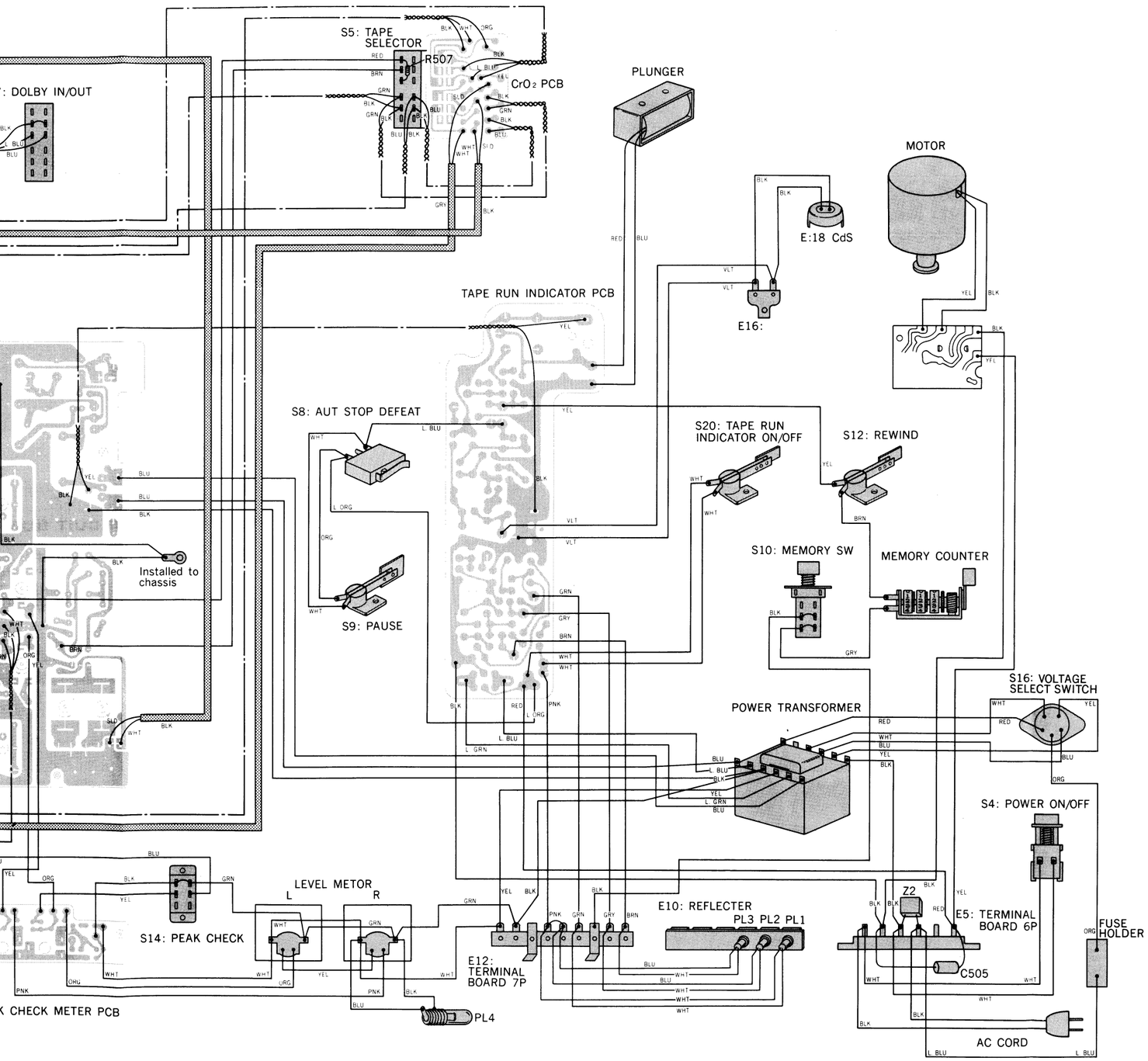
The circuit shown in red on the conductor is B circuit.
Values indicated in ▭ are DC voltages between the chassis and electrial parts.
The upper values should be measured during recording and the lower values during playback.

Short circuits
Ⓐ.....For adjustment of playback frequency characterristic (L-CH).
Ⓑ.....For adjustment of playback frequency characterristic (R-CH).
Ⓒ.....To stop bias OSC, unsolder this circuit.
Ⓓ.....For adjustment of level meter needle position.

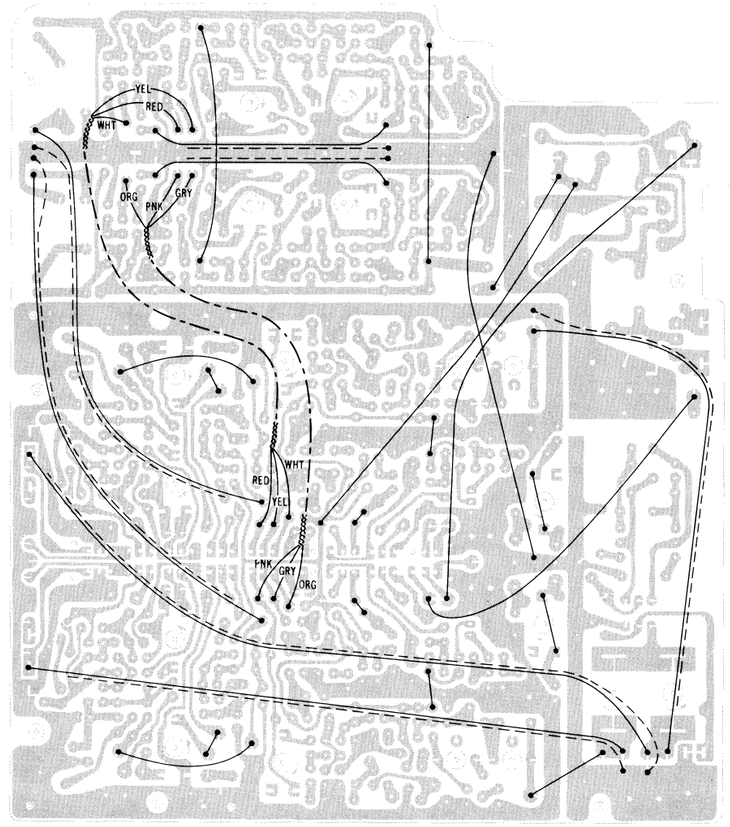
WIRING CONNECTION DIAGRAM MODEL RS-273US, RS-273USD



MODEL RS-273US, RS-273USD



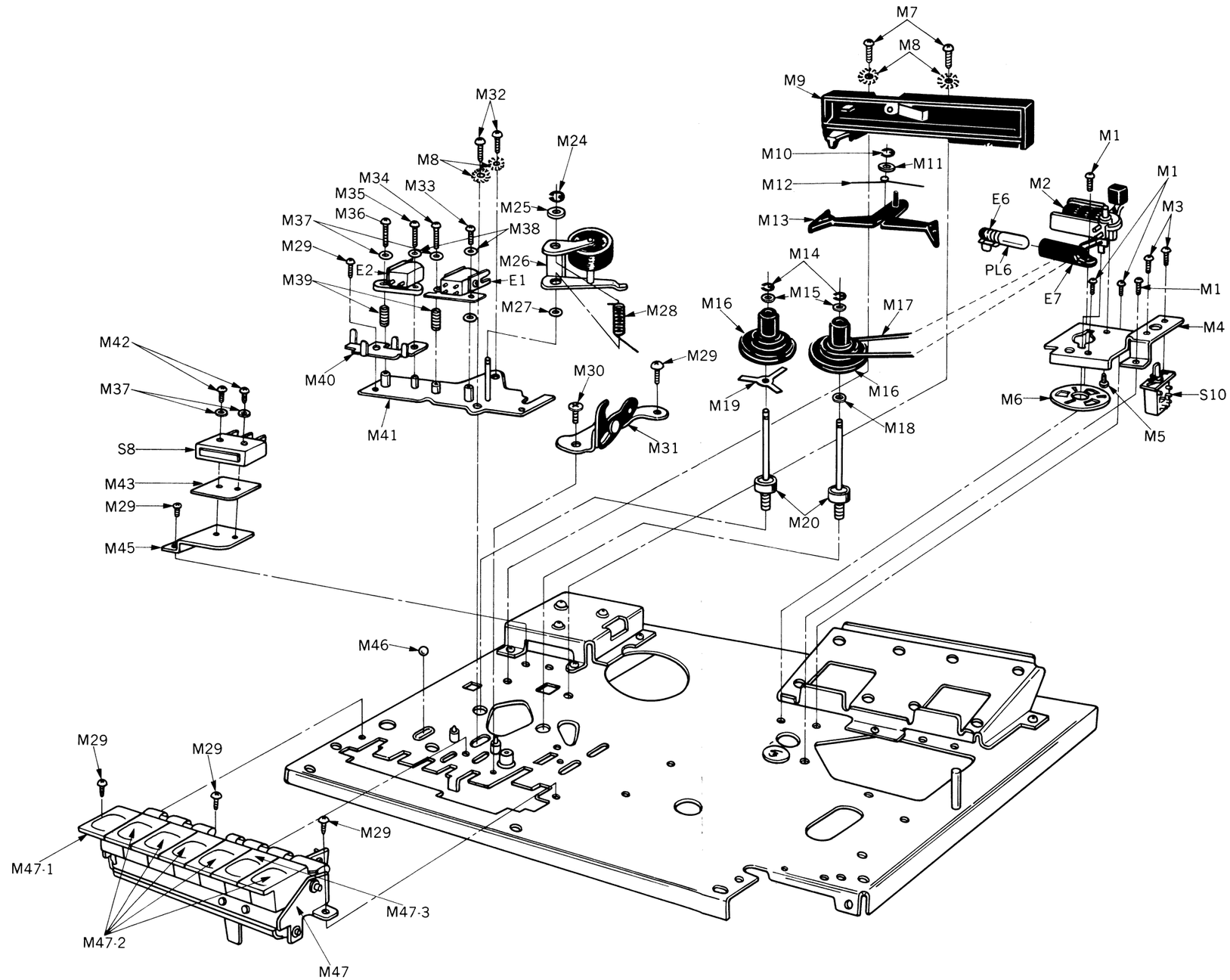
INNER WIRING

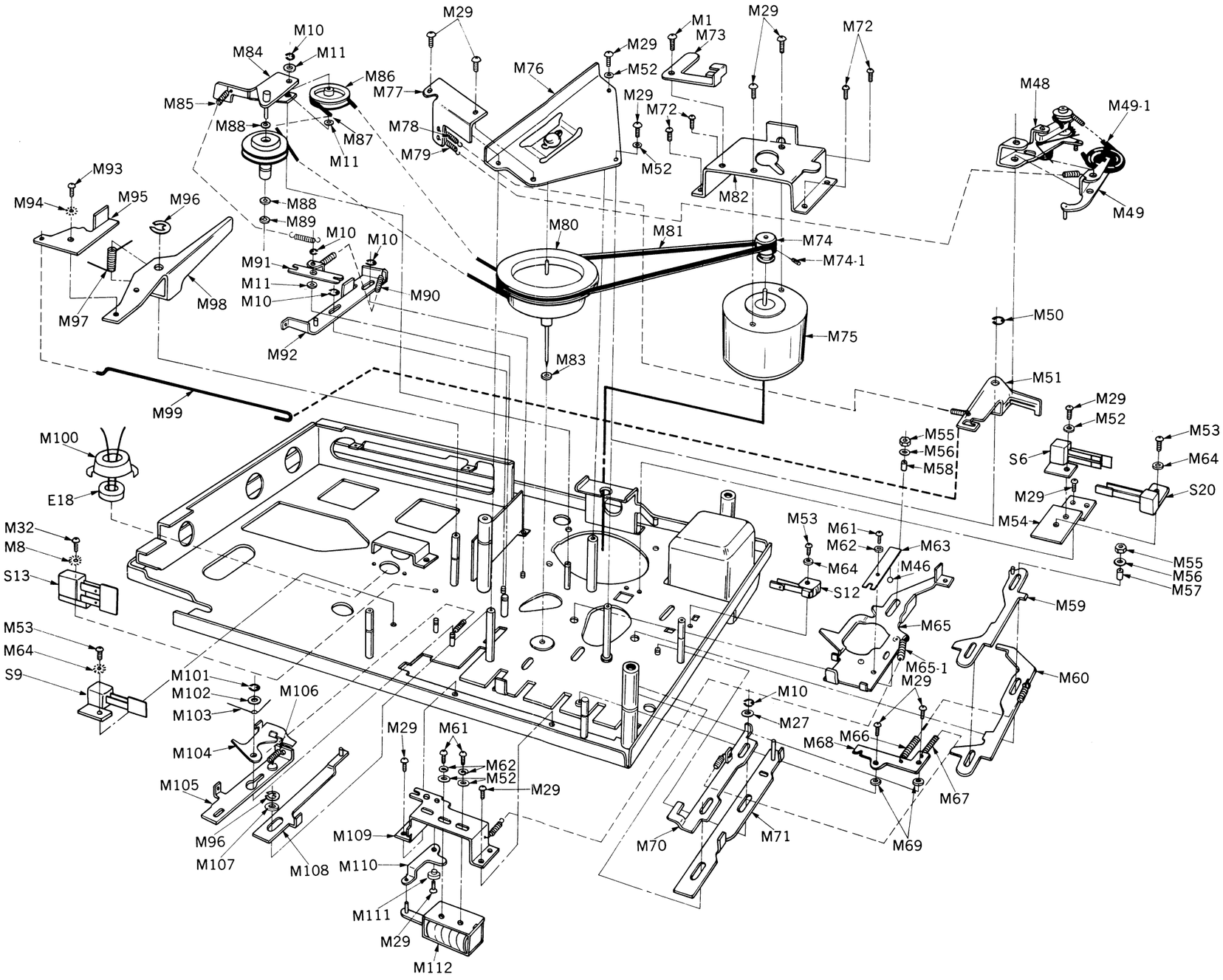


NOTE:

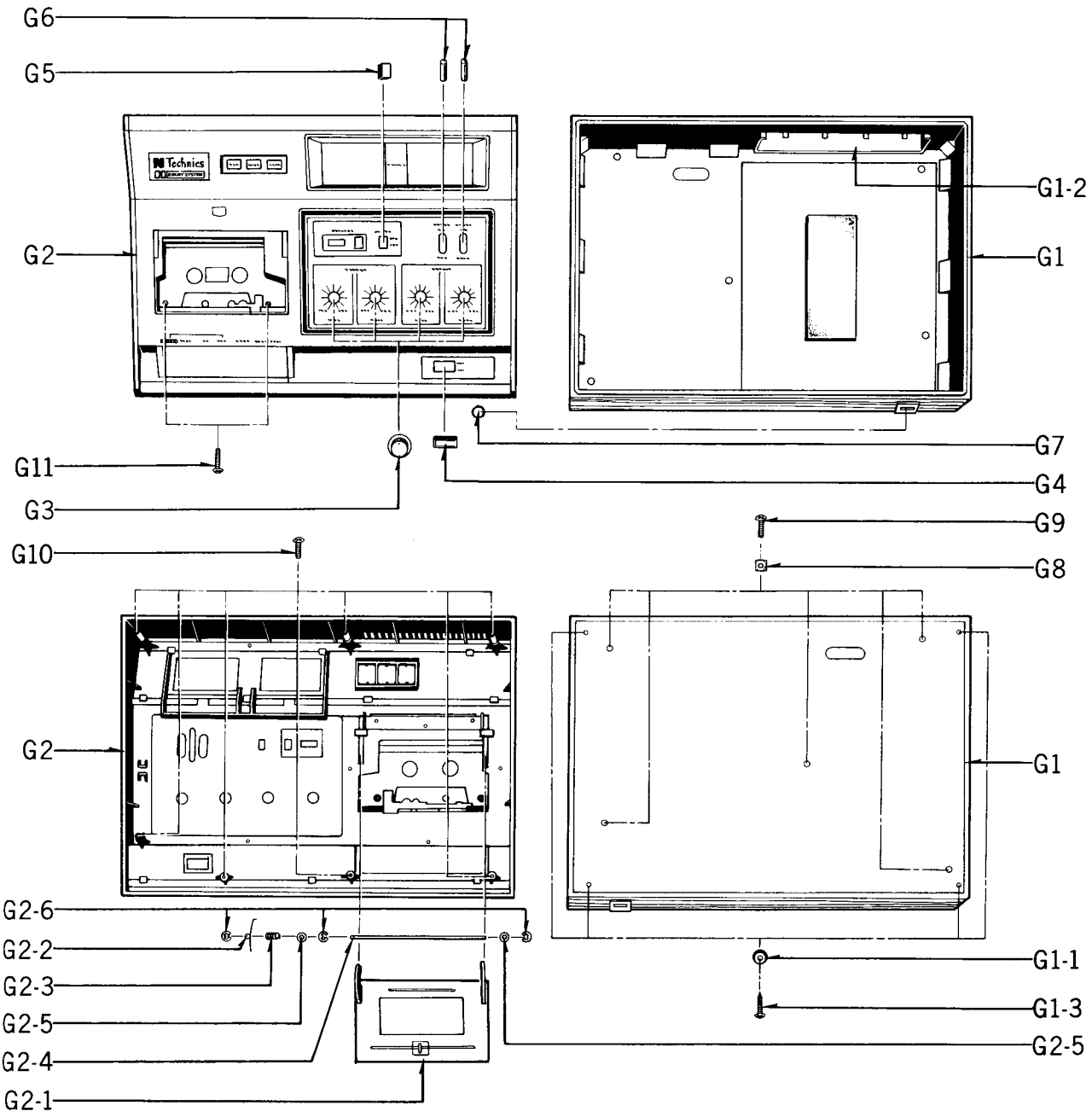
BLK .....Black
BLU .....Blue
BRN .....Brown
GRY .....Gray
GRN .....Green
L.BLU.....Light Blue
L.GRN.....Light Green
L.ORG.....Light Orange
NIL .....No Color Mark
ORG .....Orange
PNK .....Pink
RED .....Red
SLD .....Shield Wire
VLT .....Violet
WHT .....White
YEL .....Yellow

EXPLODED VIEWS




M29
M10
M84
M11
M86
M85
M77
M88
M87
M11
M78
M79
M76
M1
M73
M29
M52
M29
M72
M72
M52
M82
M48
M49-1
M49
M93
M94
M95
M96
M88
M89
M10
M10
M91
M11
M10
M90
M92
M97
M98
M80
M81
M74
M74-1
M75
M83
M50
M51
M29
M52
M53
M64
S20
M55
M56
M58
S6
M29
M54
M55
M56
M57
M53
M61
M62
M64
S12
M63
M46
M59
M65
M65-1
M29
M60
M10
M27
M68
M66
M67
M69
M70
M71
M99
M100
E18
M32
M8
S13
M53
M64
S9
M101
M102
M103
M104
M105
M106
M96
M107
M108
M29
M61
M62
M52
M29
M109
M110
M111
M29
M112

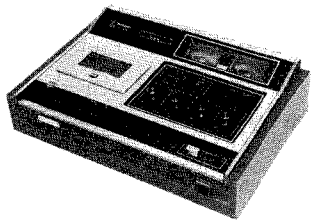
CABINET PARTS



REPLACEMENT PARTS LIST

MODEL RS-273US, RS-273USD

National Panasonic



RS-273US, RS-273USD

NOTE:

1. Be sure to make your orders of replacement parts according to this list.
2. "Ⓝ" in "Remarks" column indicates new parts.
3. SAFETY indicates that only parts specified by the manufacturer be used for replacement in critical circuits.

NOTA:

1. Habrá que asegurarse que los pedidos de piezas de repuesto se hagan según esta lista.
2. "Ⓝ" marcado en la columna "Remarks", quiere decir que las piezas son nuevas.
3. La inscripción SAFETY , que hay en algunas piezas, quiere decir que, en caso de recambiarlas, habrá que usar únicamente piezas especificadas y aprobadas por la compañia fabricadora.

NOTE:

1. Bien s'assutet de se conformer à la liste suivante pour les commandes de pièces de rechange.
2. "Ⓝ", dans la colonne "Remarks", indique les pièces nouvelles.
3. Une pièce portant l'inscription SAFETY doit être remplacée uniquement par une pièce spécifiée par le fabricant.

HIENWEIS:

1. Bestellen Sie Ihre Ersatzteile genau nach dieser Liste.
2. "Ⓝ" in der "Remarks" Spalte bedeutet "neue Teile".
3. Der Vermerk SAFETY bedeutet, dass nur Ersatzteile, die vom Hersteller dazu bestimmt sind, verwendet werden dürfen.

按:

1. 關於代用零件之訂購, 務請依照此表而行之爲荷。
2. 「備考」(Remarks)一欄中之 "Ⓝ" 形符號標記表示該零件爲新出品。
3. SAFETY 的標號表示, 僅有那些由製造公司所指定及證明的零件, 才能用來代換。

Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
	MECHANICAL PARTS					
M1	Screw ⊕3×8	XTN3+8	5			COMMON
M2	Tape Counter (with S11)	QDC0041S	1			RS-271US
M3	Screw	QHQ1161	2			〃
M4	Angle, Counter Holding	QMA1868	1			〃
M5	Screw ⊕3×4	XSS3+4S	2			COMMON
M6	Light Disc	QMF1566	1			RS-271US
M7	Screw ⊕2.6×8	XSN26+8F	2			COMMON
M8	Washer	XWC26BFX	4			〃
M9	Cassette Retainer Assembly	QXQK0014	1			RS-271US
M10	Stop Riug E3ϕ	XUC3FT	6			COMMON
M11	Fiber Washer	QBK7007	4			RS-271US
M12	Spring, Brake Pressure	QBN1088	1			〃
M13	Brake	QBJ1381	1			〃
M14	Stop Ring E1.2ϕ	XUC12FT	2			COMMON
M15	Nylon Washer	QBJ3230	2			〃
M16	Reel Table Assembly	QXP0349	2			〃
M17	Belt, Counter	QDBA0001	1			〃
M18	Tetoron Washer	QWQ1116	1			〃
M19	Spring, Back Tension	QBP1226	1			〃
M20	Shaft, Reel Table	QXSA0002	2			RS-262US
M24	Stop Ring E2.3ϕ	XUC23FT	1			COMMON
M25	Fiber Washer	QBK7160	1			RS-271US
M26	Pressure Roller Lever Assembly	QXL0709B	1			Ⓝ
M27	Washer	QBJ3233	3			RS-271US
M28	Spring, Pressure Roller	QBNA0001	1			〃
M29	Screw ⊕2.6×6	XYN26+C6	19			COMMON
M30	Screw ⊕2.6×4	XSS26+4	1			〃
M31	Cassette Lid Fook	QXH0157	1			RS-271US
M32	Screw ⊕2.6×6	XSN26+6	3			COMMON
M33	Screw ⊖2×4	XSN2−4	1			〃
M34	Screw ⊖2×8	XSNN2−8	1			〃
M35	Screw ⊖2×6	XSN2−6	1			〃
M36	Screw ⊖2×10	XSN2−10	1			〃

Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
M37	Washer	XWB2BW	5			CQMMON
M38	"	XWA2BFT	2			"
M39	Screw, Head Adjust	QBC1103A	2			RS-271US
M40	Wire Helder	QMA2674	1			Ⓝ
M41	Head Base Plate	QXK0070	1			RS-271US
M42	Screw ⊕2×10	XSN2+10	2			COMMON
M43	Insulator	QBK1217	1			Ⓝ
M45	Angle, Micro Switch	QMA1966	1			RS-217US
M46	Steel Ball	QDK1002	2			"
M47	Push Button Frame Assembly	BXB0162	1			"
M47-1	Push Button (Rec)	QGO1119	1			"
M47-2	Push Button	QGO1120	5			"
M47-3	Push Button (Eject)	QXB0151	1			"
M48	F.F. Lever Assembly	QXL0674	1			"
M49	Connector Pulley Lever Assembly	QXLA0037	1			"
M49-1	Fast Forward Belt	QDBA0002	1			"
M50	Stop Ring E4ϕ	XUC4FT	1			COMMON
M51	Lever Recording	QMLA0011A	1			Ⓝ
M52	Washer	XWE26E	5			COMMON
M53	Screw ⊕2×6	XSN2+6FX	3			"
M54	Angle, Leaf Switch	QMA2644	1			Ⓝ
M55	Nut	XNG4EFXS	2			COMMON
M56	Nylon Washer	QBJ3232	2			RS-271US
M57	Collar-L, Reel Table	QMP1211	1			"
M58	Collar-R, Reel Table	QMP1210	1			RS-262US
M59	Rod, Fast Forward	QXM0057	1			RS-271US
M60	Rod, Rewind	QMR1268	1			"
M61	Screw ⊕2×5	XSN2+5	3			COMMON
M62	Washer	XWA26BFX	3			"
M63	Spring, Steel Ball Pressure	QBP1224	1			RS-271US
M64	Washer	XWC2BFX	2			"
M65	Lever, Playback	QXL0971	1			Ⓝ
M65-1	Spring, Playback Lever	QBT1688M	1			RS-271US
M66	Spring, Rewind Rod	QBT1371M	1			Ⓝ
M67	Spring, Record SW Rod	QBT1396	1			RS-271US

Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
M68	Spring Hanger	QMF1326	1			RS-271US
M69	Collar-B, Hanger Hold	QBJ1394	2			"
M70	Rod, Switch Operation	QMRA0007	1			"
M71	Rod, Record Switch	QXM0125	1			"
M72	Screw ⊕3×6	XYN3+C6S	2			COMMON
M73	Angle	QMA2540	1			Ⓝ
M74	Motor Pulley Assembly	QXP0492	1			Ⓝ
M74-1	Screw, Motor Pulley Set	XXA26D4FX	1			RS-271US
M75	Motor	QDM0964XPA	1			Ⓝ
M76	Flywheel Retainer Assembly	QXH0207	1			Ⓝ
M77	Angle, Spring	QMA2538	1			Ⓝ
M78	Spring, Record Lever	QBT1687M	1			RS-271US
M79	Spring, Instant Stop	QXJ0064	1			"
M80	Flywheel	QXF0108A	1			Ⓝ
M81	Belt, Flywheel	QDB0137	1			RS-845US
M82	Angle, Motor Holding	QMA2539	1			Ⓝ
M83	Fiber Washer	QBK7114	1			RS-271US
M84	Lever-B Takeup	QXL0833	1			Ⓝ
M85	Spring Takeup Lever	QBTA0008	1			RS-271US
M86	Pulley,Takeup Connection	QBJA0018	1			"
M87	Belt, Takeup	QBD0128	1			"
M88	Poly Slider	QBJA3003	2			RS-283S
M89	Snap Washer	QWQ1124	1			RS-457S
M90	Spring, Right Tension	QBT1239M	1			RS-271US
M91	Lever, Instand Stop	QMLA0006A	1			"
M92	Rod-B, Pause	QXM0127	1			"
M93	Screw ⊕3×6	XSN3+6S	1			COMMON
M94	Washer	XWC3BFX	1			"
M95	Switch Adjustment plate	QMF1764	1			Ⓝ
M96	Stop Ring E5ϕ	XUC5FT	2			RS-271US
M97	Spring, Record Lever	QBN1152	1			"
M98	Lever R/P Selector	QXL0677	1			"
M99	Rod R/P Selector	QMR1267	1			"
M100	CDS Cover	QMF1565	1			Ⓝ
M101	Stop Ring E2ϕ	XUC2FT	1			COMMON

Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
M102	Washer	QBK7121	1			RS-271US
M103	Spring, Lock plate	QBN1271	1			"
M104	Lock Plate	QML2379	1			"
M105	Rod-A, Pause	QXM0126A	1			Ⓝ
M106	Spring, Pause Rod	QBT1646	1			RS-271US
M107	Fiber Washer	QBK7158	1			"
M108	Rod-A, Instant Stop	QXM0124	1			"
M109	Angle, Plunger Holder	QMA2027	1			"
M110	Lever, Plunger Pulling	QML2606	1			"
M111	Spacer	QMZ1069	1			"
M112	Plunger	QMEA0003	1			"
	RESISTORS					
R1, 2, 201, 202	Carbon Resistor 10Ω 1/4 W	ERD14TJ100	4			
R3, 4, 25, 26, 403, 404	" 68KΩ 1/4 W	ERD14TJ683	6			
R5, 6	" 220KΩ 1/4 W	ERD14TJ224	2			
R7, 8, 409, 410	453, 454, 469, 470					
	" 180KΩ 1/4 W	ERD14TJ184	8			
R9, 10, 17, 18,	93, 94, 407, 408, 449, 450					
	" 33KΩ 1/4 W	ERD14TJ333	10			
R11,12,307,43	9,440,445,446,447,448,903,906,909					
	" 8.2KΩ 1/4 W	ERD14TJ822	14			
R13, 14, 459, 460	" 82Ω 1/4 W	ERD14TJ820	4			
R15, 16, 707, 1007, 1008	" 100Ω 1/4 W	ERD14TJ101	5			
R19, 20, 69, 70	, 87, 88, 423, 424, 705, 902					
	" 3.3KΩ 1/4 W	ERD14TJ332	10			
R21, 22, 81, 82, 303, 306	" 1.5KΩ 1/4 W	ERD14TJ152	6			
R23, 24, 51, 52, 417, 418	" 1.8KΩ 1/4 W	ERD14TJ182	6			
R27, 28, 465, 466, 467, 468	" 270KΩ 1/4 W	ERD14TJ274	6			
R29, 30, 313, 4	31, 432, 706, 913					
	" 10KΩ 1/4 W	ERD14TJ103	7			
R31, 32, 59, 60	, 85, 86, 203, 204					
	" 82KΩ 1/4 W	ERD14TJ823	8			
R33, 34, 45, 46	, 63, 64, 310, 415, 416, 901. 904, 905					
	" 3.9KΩ 1/4 W	ERD14TJ392	12			

Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
R35, 36	Carbon Resistors 470Ω 1/4 W	ERD14TJ471	2			
R37, 38, 441, 442, 601, 602	" 5.6KΩ 1/4 W	ERD14TJ562	6			
R39, 40, 41, 42, 463, 464	" 15KΩ 1/4 W	ERD14TJ153	6			
R43, 44, 71, 72, 501, 502	" 150KΩ 1/4 W	ERD14TJ154	6			
R47, 48, 91, 92, 401, 402	" 56KΩ 1/4 W	ERD14TJ563	6			
R49, 50, 95, 95	" 1KΩ 1/4 W	ERD14TJ102	4			
R53, 54, 455, 456, 908	" 2.7KΩ 1/4 W	ERD14TJ272	5			
R55, 56	" 33Ω 1/4 W	ERD14TJ330	2			
R61, 62	" 12KΩ 1/4 W	ERD14TJ123	2			
R65, 66, 443, 446	" 680Ω 1/4 W	ERD14TJ681	6			
R67, 68	" 22Ω 1/4 W	ERD14TJ220	2			
R73, 74, 104, 429, 430	" 22KΩ 1/4 W	ERD14TJ223	5			
R75, 76, 301	" 27KΩ 1/4 W	ERD14TJ273	3			
R77, 78, 300, 308, 437, 438	" 6.8KΩ 1/4 W	ERD14TJ682	5			
R79, 80, 89, 90, 457, 458, 505, 506						
	" 2.2KΩ 1/4 W	ERD14TJ222	8			
R83, 84	" 100KΩ 1/4 W	ERD14TJ104	2			
R100	Solid Resistor 22Ω 1/2 W	ERC12GK220	1			RS-237US only
R101	Motal Oxide Resistor 220Ω 2 W	ERG2ANJ221	1			
R102	Solid Resistor 680Ω 1/2 W	ERC12GK681	1			
R103	" 680Ω 1 W	ERC1GK681	1			
R200	" 390Ω 1 W	ERC1GK391	1			
R302, 405, 406, 419, 420, 427, 907, 1005, 1006						
	Carbon Resistor 4.7KΩ 1/4 W	ERD14TJ472	9			
R304	" 150Ω 1/4 W	ERD14TJ151	1			
R309	" 18KΩ 1/4 W	ERD14TJ183	1			
R311	" 56Ω 1/4 W	ERD14TJ560	1			
R312, 461, 462	" 120Ω 1/4 W	ERD14TJ121	3			
R411, 412	" 120KΩ 1/4 W	ERD14TJ124	2			
R413, 414	" 47KΩ 1/4 W	ERD14TJ473	2			
R421, 422, 451, 452	" 470KΩ 1/4 W	ERD14TJ474	4			
R425, 426	" 39KΩ 1/4 W	ERD14TJ393	2			
R433, 434	" 390KΩ 1/4 W	ERD14TJ394	2			
R435, 436	" 820KΩ 1/4 W	ERD14TJ824	2			
R471	Solid Resistor 560Ω 1/2 W	ERC12GK561	1			

Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
R503, 504	Carbon Resistor 8.2Ω 1/4 W	ERD14TJ8R2	2			
R507	Solid Resistor 100Ω 1/2 W	ERC12GK101	1			
R701, 702	Carbon Resistor 1.5 MΩ 1/4 W	ERD14TJ155	2			
R703, 704	" 1 MΩ 1/4 W	ERD14TJ105	2			
R910	Solid Resistor 27Ω 1/2 W	ERC12GK270	1			
R911	Carbon Resistor 12Ω 1/4 W	ERD14TJ120	1			
R912	" 1.2 KΩ 1/4 W	ERD14TJ122	1			
R914	" 390Ω 1/4 W	ERD14TJ391	1			
	VARIABLE SESISTORS					
VR1, 2, 401, 402	Semi-fixed Variable Resistor 10 KΩ (B)	EVLS3AA00B14	4			RS-610US
VR3, 4, 701, 702	" 20 KΩ (B)	EVLS3AA00B24	4			"
VR5, 6	Variable Resistor 20 KΩ (A)	EVCB7AS20A24	2			RS-271US
VR7, 8	Semi-fixed Variable Resistor 100 KΩ (B)	EVLS3AA00B15	2			RS-276US
VR9, 10	Variable Resistor 10 KΩ (A)	EVCB0A20A14	2			RS-271US
VR403, 404	Semi-fixed Variable Resistor 2 KΩ (B)	EVLS3AA00B23	2			RS-279US
VR1101, 1102	" 50 KΩ (B)	EVNJ0AA00B54	2			Ⓝ
VR1103, 1104	" 5 KΩ (B)	EVNJ0AA00B53	2			Ⓝ
	CAPACITORS					
C1, 2	Capacitor, Styrol 820 pF	ECQS1821JZ	2			
C3, 4	" 2.2μF	ECEA50M2R2	2			
C5, 6, 407, 408	Capacitor, Ceramic 100 pF	ECCD1H101K	4			
C7, 8, 304	Capacitor, Electrolytic 100μF	ECEA6V100L	3			
C9, 10, 15, 16, 303, 305	" 47μF	ECEA16V47L	6			
C11, 12, 41, 42	Capacitor, Ceramic 47 pF	ECCD1H470K	4			
C13, 14, 63, 64	Capacitor, Electrolytic 33μF	ECEA6V33L	4			
C17, 18	" 2.2μF	ECEA50Z2R2M	2			
C19, 20, 57, 58	Capacitor, mylar 0.0027μF	ECQM05272KZ	4			
C21, 22	" 0.0015μF	ECQM05152KZ	2			
C23, 24, 429, 430	" 0.047μF	ECQM05473KZ	4			
C25, 26, 69, 70, 302	Capacitor, Electrolytic 3.3μF	ECEA25V3R3L	5			
C27, 28	Capacitor, Ceramic 5 pF	ECCD1H050C	2			
C29, 30, 43, 44	Capacitor, Electrolytic 47μF	ECEA6V47L	4			
C33, 34, 306, 435	" 100μF	ECEA16V100L	4			

Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
C37, 38	Capacitor, Electrolytic 0.22μF	ECEA50ZR22	2			
C39,40,59,60,401,402,403,404,405,406,409,410,415, 416,425,426, 431,432						
	" 10μF	ECEA16V10L	18			
C47, 48	Capacitor, Mylar 0.056μF	ECQM05563KZ	2			
C200, 411, 412	" 0.033μF	ECQM05333KZ	3			
C49, 50, 203, 307	" 0.1μF	ECQM05104KZ	4			
C51,52,53,54, 65,66,67,68	Capacitor, Electrolytic 10μF	ECEA25V10L	8			
C55, 56	Capacitor, Mylar 0.027μF	ECQM05273KZ	2			
C61, 62	Capacitor, Electrolytic 47μF	ECEA25V47L	2			
C71, 72, 308	" 33μF	ECEA25V33L	3			
C73, 74	Capacitor, Mylar 0.068μF	ECQM05683KZ	2			
C75, 76	" 0.001μF	ECQM05102KZ	2			
C100	Capacitor, Electrolytic 470μF	ECEA25V470L	1			
C101	Capacitor, Ceramic 470 pF	ECKD1H471M	1			
C102, 103, 106	Capacitor, Electrolytic 220μF	ECEA25V220L	3			
C104	" 1000μF	ECEA25V1000L	1			
C105	" 1000μF SAFETY	ECEA25V1000V	1			
C201, 202	Capacitor, Styrol 4700 pF	ECQS1472JZ	2			
C204	Capacitor, Mylar 0.022μF	ECQM1223KZ	1			
C301	Capacitor, Electrolytic 220μF	ECEA16V220L	1			
C413, 414	Capacitor, Mylar 4700pF	ECQM05472KZ	2			
C417 ,418, 427, 428	Capacitor, Electrolytic 0.33μF	ECEA50ZR33K	4			
C419, 420, 703, 902	" 47μF	ECEA10V47L	4			
C421, 422	Capacitor, Styrol 470 pF	ECQS1471KZ	2			
C423, 424, 433, 434	Capacitor, Electrolytic 0.1μF	ECEA50ZR1K	4			
C501, 502, 503, 504	Capacitor, Ceramic 100 pF	ECCD1H101K	4			
C505	Capacitor, Electrolytic 1000μF	ECEB16V1000L	1			
C508	Capacitor, Ceramic 470 pF	ECCD1H471K	1			
C601, 602	Capacitor, Mylar 0.012μF	ECQM05123KZ	2			
C701, 702	Capacitor, Electrolytic 1μF	ECEA50V1L	2			
C901, 903, 904	" 100μF	ECEA10V100L	3			
C1020, 1021	Capacitor, Styrol 220 pF	ECQS1221JZ	2			
	VARIABLE CAPACITORS					
VC1	Variable Capacitor 2-180 pF	QCV2118	1			RS-271US

Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
	COMBINATION PARTS					
Z1	CR Combination	QCR0004	1			RS-271US
Z2	"	QCR0008T	1			(N) RS-273US only
	TRANSISTORS					
Tr1, 2, 3, 4	Transistor	2SC1327	4			RS-279US
Tr5, 6	"	2SC644	2			RQ-317S
Tr7,8,9,10,11,12,13,14,15,16,401,402,403,404,405, 406,409,410,413,414,701,702,904						
	"	2SC828	23			"
Tr17, 18, 19	"	2SC1407	3			RS-271US
Tr20	"	2SC945	1			RS-457S
Tr21, 22, 901, 902, 903	"	2SC1317	5			RQ-317S
Tr407, 408	FET	2SK37	2			RS-610US
Tr411, 412	Transistor	2SA564	2			RS-276US
	DIODES					
D1, 2, 301, 302, 405, 406, 701, 702						
	Diode	OA90Z	8			RQ-317S
D5, 303	"	SD1Y	2			RS-279US
D6, 304	" SAFETY	10DC1	2			"
D305	" SAFETY	10DC1R	1			"
D401,402,403, 404,407,408	"	1S1211	6			RS-269US
D410	"	RD7A	1			RS-279US
	THERMISTORS					
TH401, 402	Thermistor	QVM302A	2			RS-279US
	TRANSFORMERS					
T1, 2	Transformer, Headphone Output	QLA0349	2			RS-279US
T3	Transformer, Bias Oscilation	QLB0158	1			RS-271US
T4	Transformer, Power SAFETY	QLP0540W	1			(N) RS-273US only
(T4)	" SAFETY	QLPD4EMH	(1)			RS-273USD only
(T4)	" SAFETY	QLPA12EMH	(1)			(N) RS-273USD for England only

Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
	COILS					
L3, 4	Coil, Bias Trap	QLH2020	2			RS-271US
L5, 6	Coil, Peaking	QLH2008	2			RS-269US
L401, 402	Coil, Filter	QLH2021A	2			〃
	SWITCHES					
S1, 2	Slide Switch, REC/PLAY	QSS1169	1			RS-271US
S3	Slide Switch, Input Select	QSS1073	1			〃
S4	Push Switch, Power ON/OFF SAFETY	QSW0108S	1			RS-273US only
(S4)	Push Switch, Power ON/OFF SAFETY	ESB7016	1			RS-273USD only
S5	Lever Switch, Tape Select	QST0041S	1			〃
S6	Leaf Switch, Rec Muting	QSB0181	1			〃
S7	Lever Switch, Dolby IN/OUT	QST0033SB	1			〃
S8	Micro Switch, Auto Stop Defeat	QSM0040A	1			〃
S9	Leaf Switch, Pause	QSB0178	1			〃
S10	Pnsh Switch, Memory	ESB504	1			〃
S11	Counter Switch (included in tape counter)	(Refer to M2)	(1)			
S12, 20	Leaf Switch, Rew, Play	QSB0177	2			RS-271US
S13	Leaf Switch, Play Muting	QSB0182	1			〃
S14	Slide Switch, Peak Check	QSS201T	1			Ⓝ
S15	Relay Switch	QSK0121	1			RS-271US
S16	Rotary Switch, Voltage Select SAFETY	QSR0004B	1			RS-273US only
	JACKS					
J1, 2, 3, 4	Jack, Line IN-OUT	(Refer to E4)	(1)			
J501, 502	Jack, MIC Input	QJA0115	2			RS-271US
J503	Jack, Headphone OUT	QJA0228	1			〃
	PILOT LAMPS					
PL1, 2, 3	Pilot Lamp, Tape Running Indication	XAMQ22P200N	3			RS-283S
PL4, 5	Pilot Lamp (Built in level meter)	(Refer to E3)	(1)			
PL6	Pilot Lamp, Auto Stop	XAM30TW	1			RS-271US

Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
	ELECTRICAL PARTS					
E1	Head, Rec/Playback	WY445HZ	1			(N)
E2	Head, Erase	WY242Z	2			RS-271US
E3	Level Meter	QSL9004RNM	2			(N)
E4	Jack Board Assembly	QEJ0227A	1			(N)
E5	Terminal Board 6P	QJT6009	1			RS-271US
E6	Sockt, Auto Stop Lamp	QJS0127	1			"
E7	Cover, Stop Lamp	QBJ1879	1			RS-279US
E8	AC Power Cord SAFETY	QFC1041	1			RS-273US only
(E8)	" SAFETY	QFC1051A	(1)			RS-273USD only
(E8)	" SAFETY	QFC1205	(1)			RS-273USD for England only
E9	Bushing, Power Cord Fixing	QTD1129	1			RS-273US only
(E9)	"	QBJ1425	(1)			RS-273USD only
E10	Reflector for PL1, 2, 3	QBJ2141	1			RS-271US
E11	Bushing for PL1, 2, 3	QBG1166	3			RS-259US
E12	Terminal Board 7P	QJT7002RO	1			RS-279US
E13	Screw, Power SW Holding	XSNQ0004S	2			RS-806US
E14	Spacer (Peak Check Sw)	QKJ0077	1			(N)
E15	Spacer (Lever SW)	QBJ2139	2			RS-263AUS
E16	Terminal Board 2P	QJT2008	1			RS-277US
E17	Switch Guide	QBJ2140	1			(N)
E18	Cds	SR10E	1			RS-282S
E19	PCB Holder	QBK1213	2			(N)
E20	Fuse 1A SAFETY	XBA1E10NR3	1			RS-237US only
(E20)	Fuse 0.315 mA SAFETY	XBAQ0006	(2)			RS-273USD only
(E20)	Fuse 0.315 mA SAFETY	XBAQ031525	(2)			(N) RS-237USD for England only
(E20)	Fuse 0.5 mA SAFETY	XBAQ0003	(2)			RS-273USD only
(E20)	Fuse 0.5 mA SAFETY	XBAQ050026	(2)			(N) RS-273USD for England only
E21	Fuse Holder	QTF1033	1			RS-273US only
(E21)	Fuse Holder	QTF1039	(1)			RS-273USD only
	CABINTE PARTS					
G1	Main Case Assembly	QYJ1349	1			(N) RS-273US, RS-273USD for England only
(G1)	Main Case Assembly	QYW0020	(1)			(N) RS-273USD only

Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
G1-1	Rubber Foot	QKA1066	4			RS-272US
G1-2	Jack Cover	QBJ1622	1			RS-275US
G1-3	Screw ⊕3.8×13	XMM38+13	4			COMMON
G2	Panel Assembly	QYP0565	1			(N) RS-273US only
(G2)	"	QYP0566	(1)			(N) RS-273USD only
G2-1	Cassette Lid	QYF0217	1			(N)
G2-2	Spring, Lid Open	QBS1040	1			RS-279US
G2-3	Spring, Lid Thrust	QBS1041	1			"
G2-4	Lid Shaft	QMS1795	1			"
G2-5	Fiber Washer 3.2×6×1	QBK7123	2			RS-271US
G2-6	Stop Ring E2.5φ	XUC25FT	3			COMMON
G3	Knob, Controls	QYT0735	4			(N)
G4	Button, Power ON/OFF	QXB0088	1			(N) RS-273US only
(G4)	"	QYTM0014	(1)			(N) RS-273USD only
G5	Button, Memory	QGO4062	1			RS-271US
G6	Lever Knob	QGT1245	2			(N)
G7	Nut, Headphone Jack Set	QNQ1033	1			RS-271US
G8	Washer	QWQ1115	5			RS-272US
G9	Screw ⊕3×14 (Red)	XSN3+14RS	5			COMMON
G10	Screw ⊕3×8(Red)	XYN3+C8RS	7			"
G11	Screw ⊕2.6×12	SXN26+12FC	2			"
	ACCESSORIES					
A1	Cassette Tape	QFT6TCJNTBFZ	1			RS-610US
A2	Connection Cord	RP023A	2			RS-273US, RS-273USD for England only
A3	Din Cord	RP050A	1			RS-273USD only
A4	AC Plug Adaptor	QJP0603S	1			RS-273US only
	PACKINGS					
P1	Inside Carton	QPN3271	1			(N) RS-273US only
(P1)	"	QPN3272	(1)			(N) RS-273USD only
P2	Inner Cushion-A	QPN2890	1			RS-271US
P3	Inner Cushion-B	QPN2891	1			"
P4	Poly Bag	XZB40X55A05	1			"
P5	Accessory Box	QPW1125	1			RQ-309S

Printed in Japan